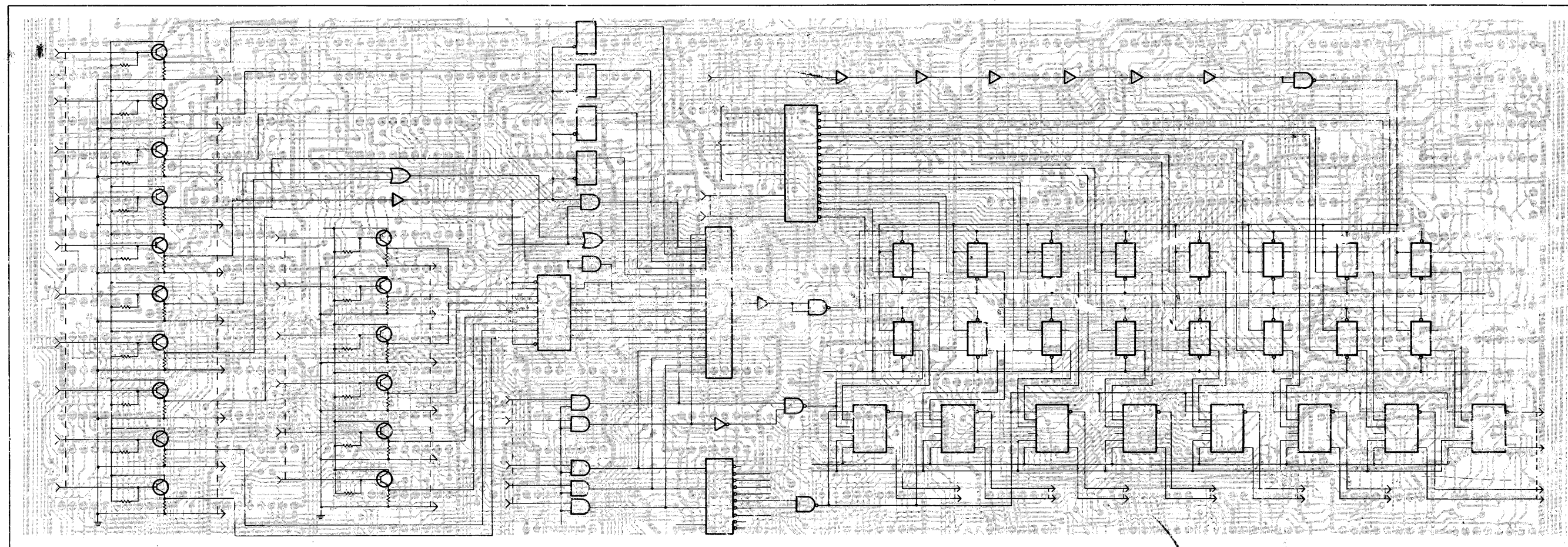




Model 990 Computer Family Maintenance Drawings



CRU Expansion and Peripherals Volume III

Part No. 945421-9703 **
15 June 1980

TEXAS INSTRUMENTS

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MANUAL REVISION HISTORY

Model 990 Computer Family Maintenance Drawings, Volume III, CRU Expansion and Peripherals (945421-9703)

Original Issue 15 June 1980 (MCR 000389)

Total number of pages in this publication is 578.

Preface

The Model 990 Computer Family Maintenance Drawings provide assembly drawings, list of materials, logic diagrams, and electronic schematic diagrams for equipment currently available in the 990 Family of Computers. This information is designed for use as a reference by customer representatives, factory-service personnel, factory-customer support engineers, and other maintenance personnel involved in diagnosis and repair of 990 computer equipment.

The Model 990 Computer Family Maintenance Drawings consists of five volumes. The five volumes are:

Volume	Part Number 0945421	Volume Title
I	-9701	Computer Chassis and Enclosures
II	-9702	Processors and Memories
III	-9703	CRU Expansion and Peripherals
IV	-9704	TILINE Expansion and Peripherals
V	-9705	AMPL Systems

The contents of Volume 3 are summarized in the following paragraph:

VOLUME III, CRU EXPANSION AND PERIPHERALS, PART NUMBER 0945421-9703. Volume III contains the following information and drawings:

- Preface — Description of Volume III
- Table of Contents — For Volume III only
- Section 1 — CRU Expansion
- Section 2 — PROM Programmer
- Section 3 — 911 VDT (Video Display Terminal)
- Section 4 — 913A CRT (Cathode Ray Tube)
- Section 5 — 810 Printer
- Section 6 — 820 KSR (Keyboard Send Receive) Data Terminal
- Section 7 — 990 Maintenance Unit
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Note:

AD denotes Assembly Drawing
LM denotes List of Materials

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Note:

AD denotes Assembly Drawing
LM denotes List of Materials

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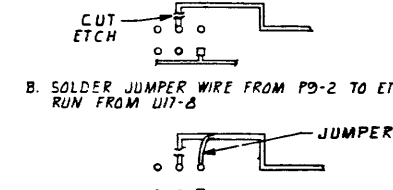
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Note:

AD denotes Assembly Drawing
LM denotes List of Materials

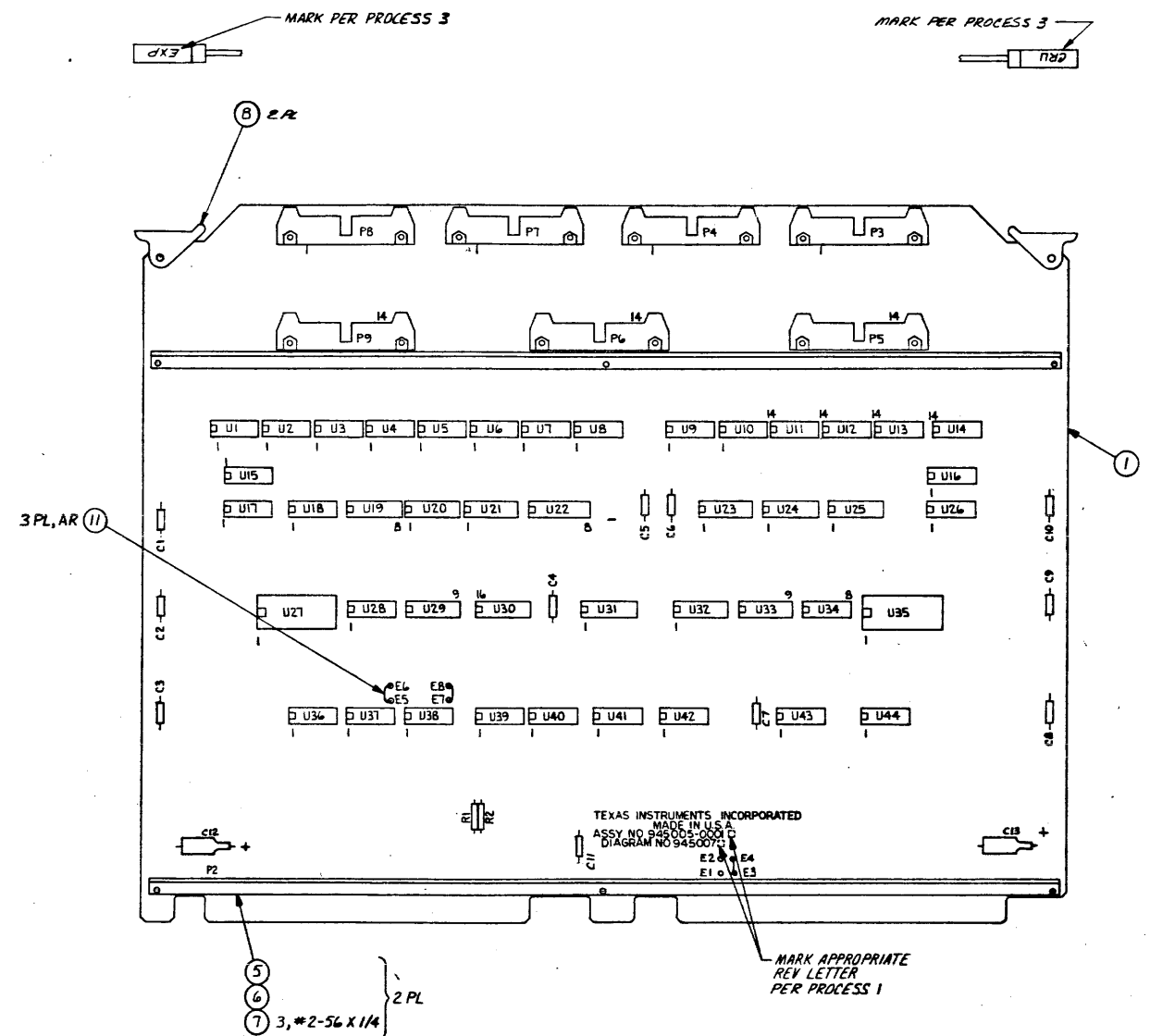
ITEM 29 IN THE -0001 LM CONSISTS OF COMPONENTS WHICH ARE AUTO-INSERTED AND CONTAINED IN THE -5001 LM

NOTES:
 1. REWORK PROCEDURE FOR PWB, 945006, REV A
 A. CUT ETCH CONNECTING TO P9-4 (CONDUCTOR SIDE ONLY)
 B. SOLDER JUMPER WIRE FROM P9-2 TO ETCH RUN FROM U17-8



2. THIS ASSY. IS NOT SUITABLE FOR FUTURE DESIGN. REFER TO DWG 2262080
 NOTES CONT Z D-5

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN407733 (B) 71.0mm (1) ADDED NOTE 1 (2) UPDATED REV LEVEL BLOCK	5-4-76	J.R. Rob
B		CN407718 (C) 22mm (1) ADDED PROCESS 3 (2) ADDED EJECTOR MARKING (3) UPDATED REV LEVEL	7/7/76	Religion
C		CN411824 (C) D. 11mm (1) ITEM 8 WAS 945240-0001 (2) DELETED ITEM 9 (3) UPDATED REV LEVEL BLOCK	5/25/76	Religion
D		CN417301 (E) J. 1.0mm (1) -1, L.M. ITEM 12 WAS 972759-0001, 25V CAP (2) UPDATED REVISION LEVEL BLOCK	7-15-76	J.R. Rob
E		CN420936 (D) C. 5mm (1) L.M. ITEM 10 WAS 972698-2 (2) L.M. ITEM 11 QTY WAS AR (3) ADDED TEST PROC LINE AND UPDATED REV LEVEL BLK	1-31-77	J. R. Rob
F		CN442754 (F) 2.0mm (1) INACTIVATED DWG (2) UPDATED REV LEVEL BLOCK	1-1-79	J. R. Rob
G		CN448424 (C) B. 1.0mm (1) DELETED "INACTIVE" STAMP FROM DWG. (2) REACTIVATED DWG. & LM (3) ADDED NOTE 2 (4) UPDATED REV LVL BLK	1-15-79	E. King
H		CN451937 (D) 2.0mm (1) ON-0001 L.M. ITEM G WAS 966486-1 (2) UPDATED REV LEVEL BLOCK	5-11-79	E. King
J		CN451987 (C) 2.0mm (1) ON-0001 L.M. ITEM 25 WAS 972171-57 (2) UPDATED REV LEVEL BLOCK	5-14-79	E. King
K		CN453396 (E) 1.0mm (1) UPDATED REV LEVEL BLOCK	2-13-80	J.R. Rob
L		CN451314 (C) 2.0mm (1) ON-1 L.M. DELETED ITEMS 1, 12-20 # 22 -27 & ADDED ITEM 29 (2) CREATED -5001 LM (3) UPDATED REV LEVEL BLOCK	4-24-80	J.R. Rob



945005-5001	AUTO-INSERTED PARTS LIST FOR -0001
945005-0001	CRU EXPANSION BOARD, 990
	DESCRIPTION

INACTIVE FOR FUTURE DESIGN
 REPLACED BY 2262080

QTY	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

PARTS LIST		DATE	
OWN	R. P. Rob	1-21-76	
ENGR	B. J. King	1/29/76	
CHKD	J. R. Rob	1/29/76	
DESIGN ACTIVITY RELEASE			
SCALE	1/1		

TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas	
CRU EXPANSION BOARD, 990	
SIZE	CODE IDENT NO | DRAWING NO
D	96214 | 945005
SHEET	

PROCESSES:
 1. MARK PER F-100, METHOD II, CLASS I, HEIGHT .09, COLOR BLACK
 2. SOLDER PER F-127, METHOD I AND OR F-124
 3. MARK PER F-100, METHOD VII, CLASS 12, COLOR BLACK, TYPE 6

REVISION LEVEL	TP (945006-9901)	PWB (945006-0001)	LOGIC DIAGRAM (945007-9901)	ASSY (945005-0001)
A	A	A	A	A
B	B	B	B	B
C	C	C	C	C
D	D	D	D	D
E	E	E	E	E
F	F	F	F	F
G	G	G	G	G
H	H	H	H	H
I	I	I	I	I
J	J	J	J	J
K	K	K	K	K
L	L	L	L	L

HOLE TOLERANCE	UNLESS OTHERWISE SPECIFIED
0.13 - .001	REMOVE ALL BURRS AND SHARP EDGES
.125 - .001	CONCENTRICITY MACHINED DIAMETERS .010 FIR
.251 - .001	DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
.250 - .001	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
.750 - .001	INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100

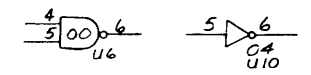
HOLE TOLERANCE	UNLESS OTHERWISE SPECIFIED
0.13 - .001	DIMENSIONS ARE IN INCHES
.125 - .001	TOLERANCES ANGLES 90°
.251 - .001	3 PLACE DECIMALS ±.010
.250 - .001	2 PLACE DECIMALS ±.02

TEXAS INSTRUMENTS INCORPORATED		DATE 04/06/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945005-0001		REV K8		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0945006-0001	PWB-CRU EXPANSION BOARD, 990							
0002	REF	EA		0945007-9901	LOGIC DIAGRAM-CRU EXPANSION, 990							
0003	REF	EA		0945008-9901	TEST PROCEDURE-CRU EXPANSION, 990							
0004	REF	EA		0945009-9901	SPECIFICATION-CRU EXPANSION, 990							
0005	00002.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN							
0006	00002.000	EA		0944954-0001	INSULATOR, PWB, 14IN							
0007	00006.000	EA		0972684-0002	SCREW, THD FRMG, HEX WSHR HD, 2-56X1/4 LG							
0008	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB							
0010	00007.000	EA		0972137-0002	CONNECTOR, P-C HEADER 26 CONTACT R ANGLE	BE1 - 65483-002						
0010A					P3 THRU P9							
0011	00000.020	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER							
0012	00011.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%							
0012A					C1 THRU C11							
0013	00003.000	EA		0222222-7403	NETWORK SN7403N							
0013A					U36 U41 U44							
0014	00002.000	EA		0222222-7404	NETWORK SN7404N							
0014A					U42 U43							
0015	00001.000	EA		0222222-7405	NETWORK SN7405N							
0015A					U39							
0016	00002.000	EA		0222222-7430	NETWORK SN7430N	-SN7430N						
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CRU EXPANSION BOARD, 990					
APPROVING		DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0945005-0001				
							7506	REV K8				

TEXAS INSTRUMENTS INCORPORATED		DATE 04/06/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945005-0001		REV K8		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0016A					U37 U38							
0017	00004.000	EA		0240000-7440	NETWORK-SN74H40N							
0017A					U15 U16 U17 U26							
0018	00002.000	EA		0222222-7442	NETWORK-SN7442N							
0018A					U30 U32							
0019	00001.000	EA		0222222-7475	NETWORK-SN7475N							
0019A					U31							
0020	00002.000	EA		0222222-7148	NETWORK SN74148N							
0020A					U29 U33							
0021	00002.000	EA		0222222-7150	NETWORK SN74150N							
0021A					U27 U35							
0022	00002.000	EA		0972556-0001	NETWORK SN74367N	TI- -SN74367N						
0022A					U19 U20							
0023	00005.000	EA		0972556-0002	NETWORK SN74368N							
0023A					U21 THRU U25							
0024	00015.000	EA		0972007-1470	NETWORK, RES., 14 PIN, 47 OHM, 28, 7 ELEMENT							
0024A					U1 THRU U14, U40							
0025	00002.000	EA		0972141-0057	NETWORK, RES. 4.7 K OHM 2 X 14 PIN DIP	BEC - 899-1-R4.7K						
0025A					U28 U34							
0026	00002.000	EA		0972946-0072	RES FIX 2.0K OHM 5 X .25 W CARBON FILM	ROH - R-25						
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CRU EXPANSION BOARD, 990					
APPROVING		DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0945005-0001				
								REV K8				

TEXAS INSTRUMENTS INCORPORATED		DATE 04/06/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0945005-0001		REV K8		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0026A					R1 R2							
0027	00001.000	EA		0219402-7404	NETWORK SN74504N							
0027A					U18							
0028	00002.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 X 15 VOLT	QPL -M39303/1-2271						
0028A					C12 C13							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CRU EXPANSION BOARD, 990					
APPROVING		DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0945005-0001				
								REV K8				

NOTE: UNLESS OTHERWISE SPECIFIED:
 1. ALL DEVICE TYPES ARE PREFIXED WITH SN74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 2 OF ALL 16-PIN IC'S
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS;

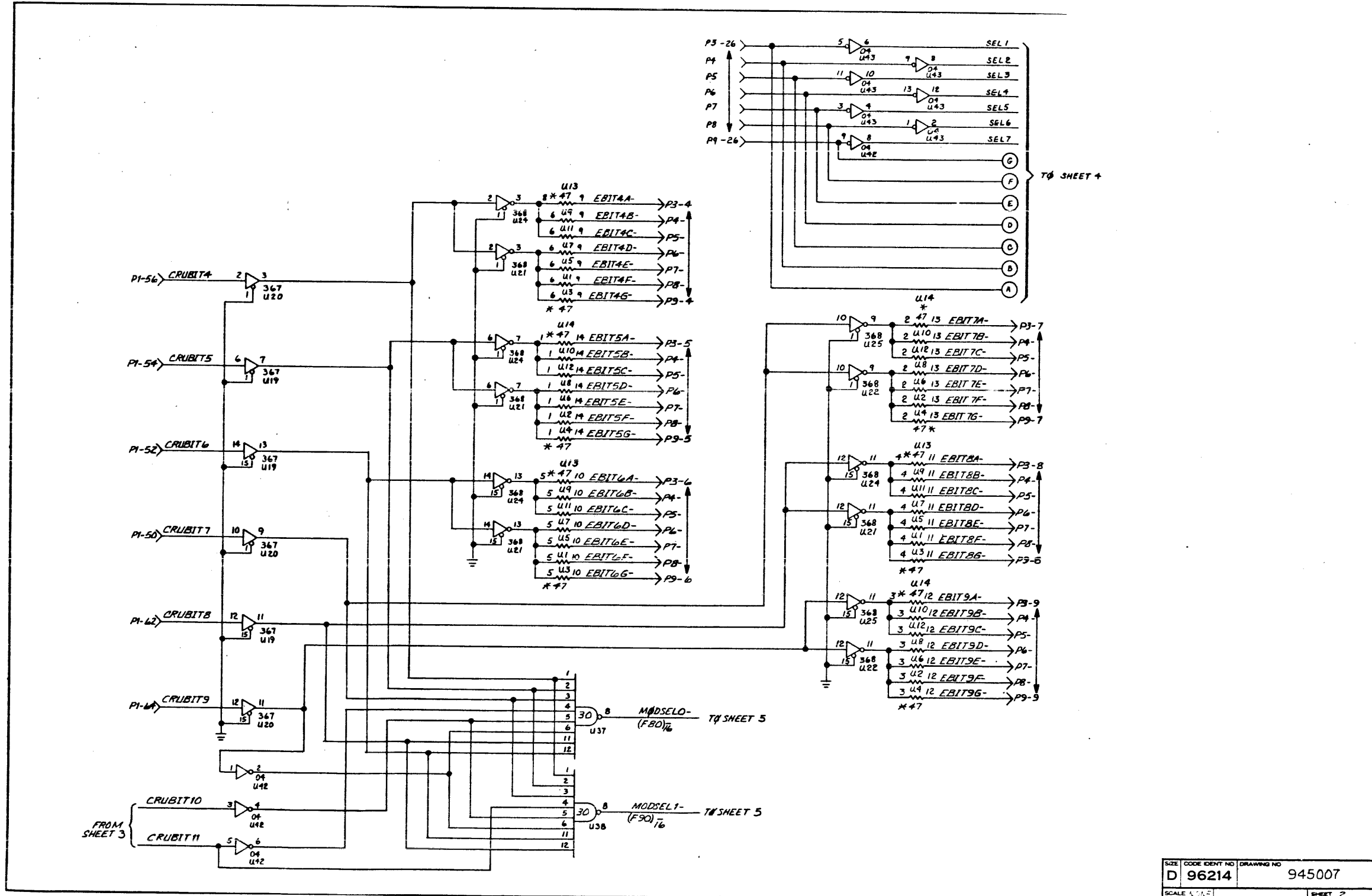


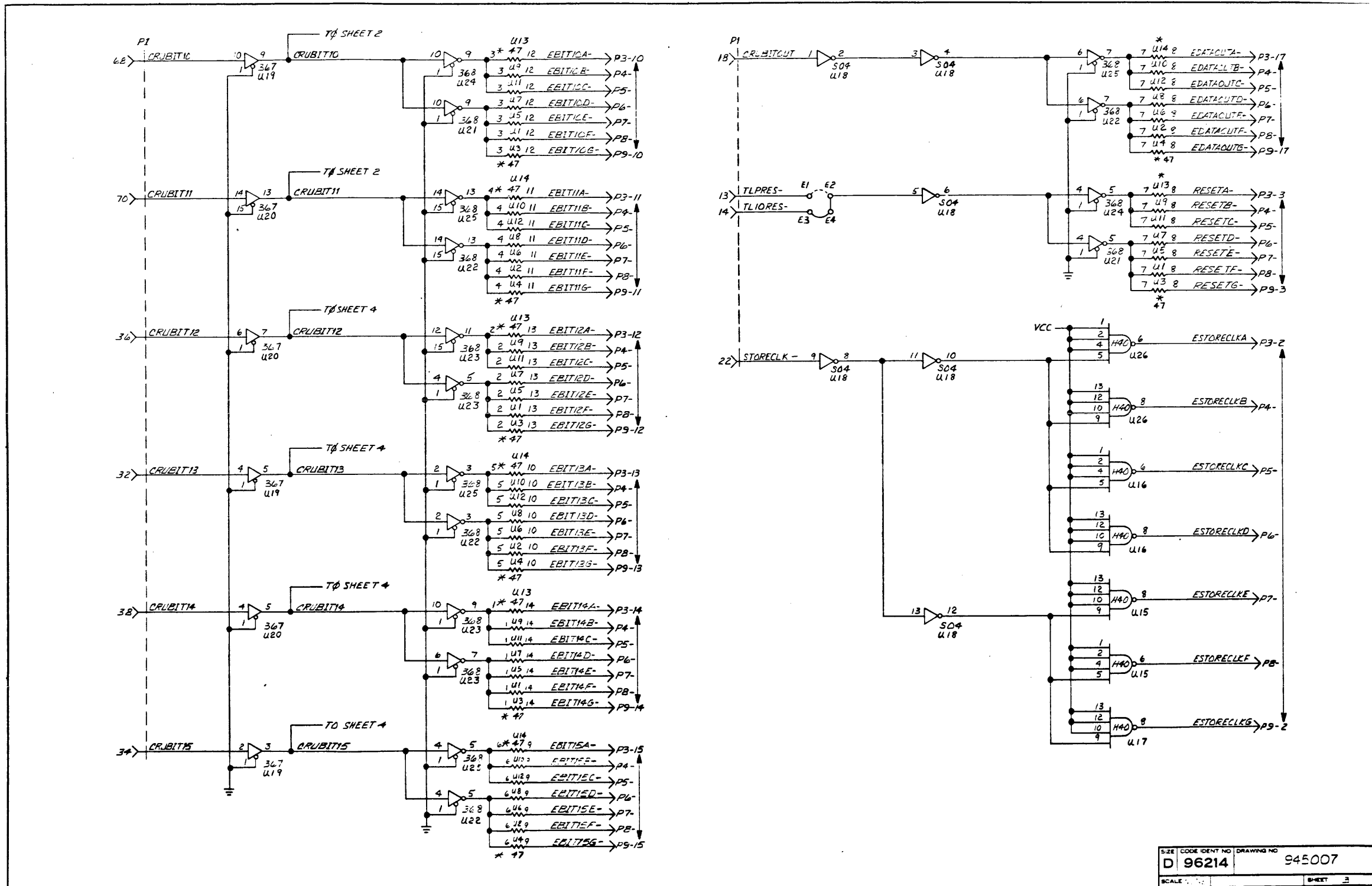
00 AND 04 = DEVICE TYPE
 4, 5, AND 6 = PIN NUMBERS
 U6 AND U10 = REFERENCE DESIGNATORS

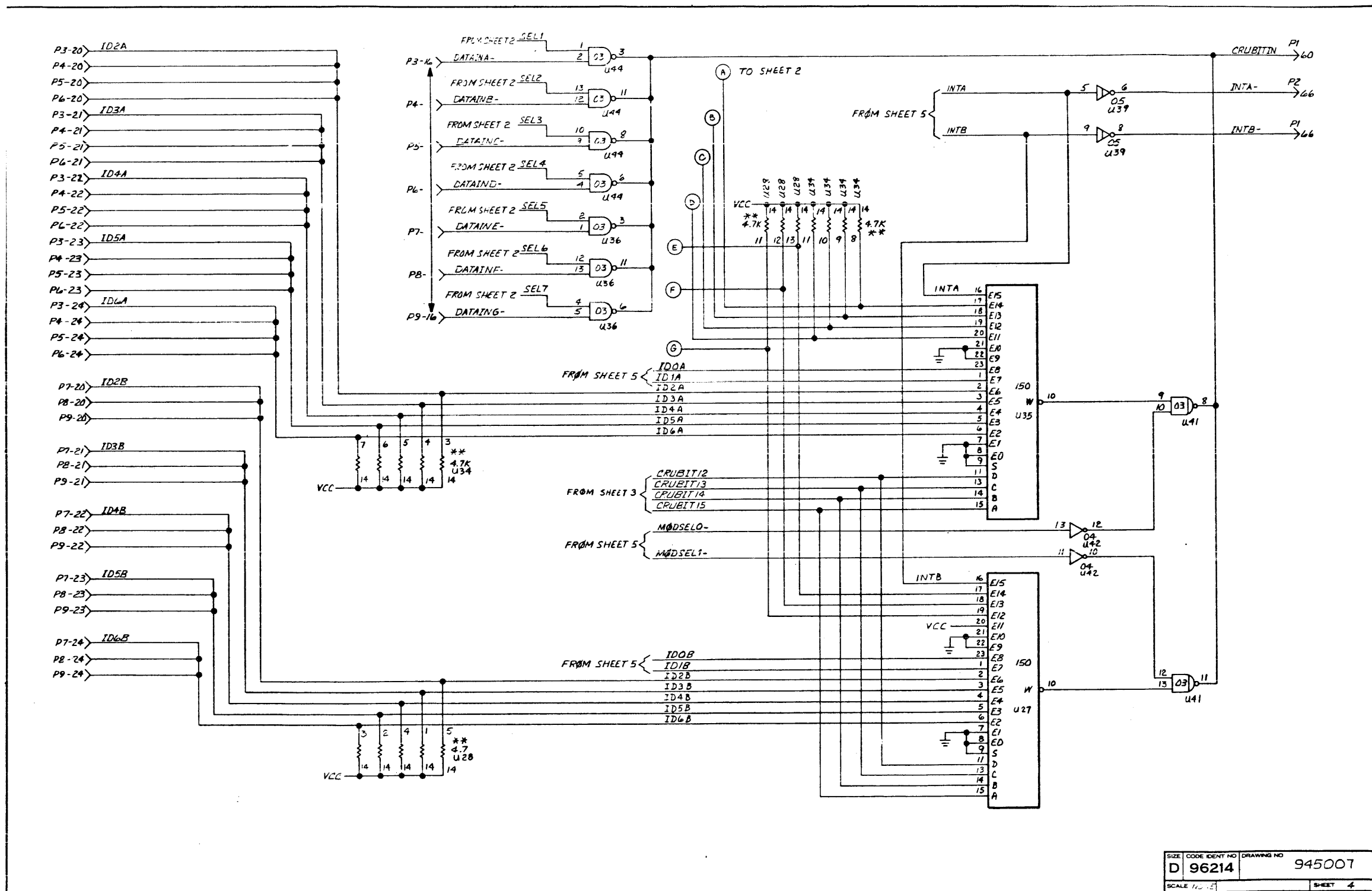
5. * - INDICATES A 14 PIN RESISTOR PACKAGE
 6. ** - INDICATES A 14 PIN RESISTOR PACKAGE WITH 13 4.7K RESISTORS

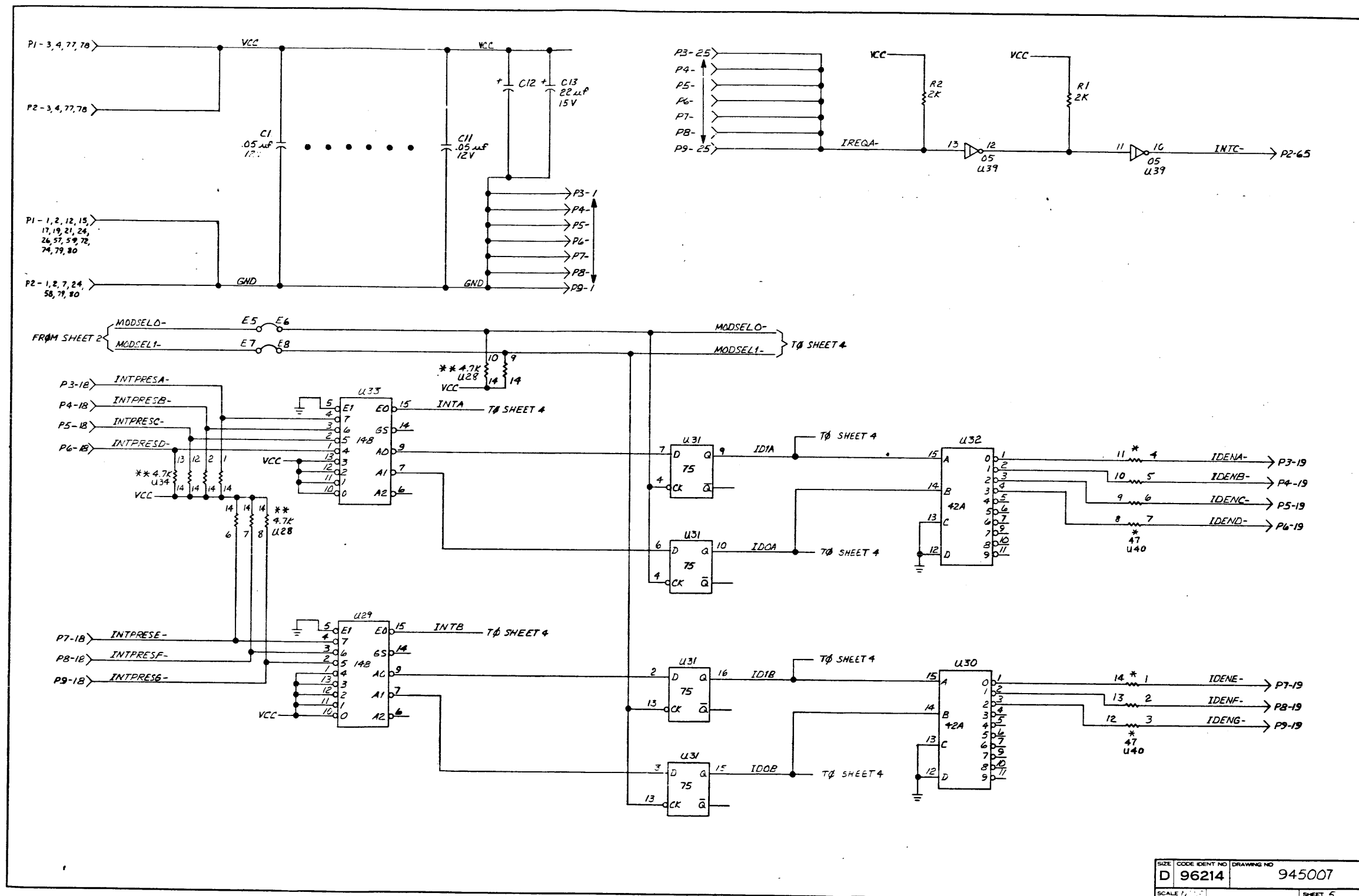
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

-2	-1	ITEM	CODE	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION																																
QTY	REQD	NO	IDENT																																			
PARTS LIST																																						
UNLESS OTHERWISE SPECIFIED			UNLESS OTHERWISE SPECIFIED																																			
REMOVE ALL BURRS AND SHARP EDGES			DIMENSIONS ARE IN INCHES																																			
CONCENTRICITY MACHINED DIAMETERS .010 FIR			TOLERANCES																																			
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING			ANGLES ±1°																																			
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY			3 PLACE DECIMALS ±.010																																			
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			2 PLACE DECIMALS ±.02																																			
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APPLICATION		<table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1-24-76</td> <td>J. J. J.</td> </tr> </tbody> </table>					DATE	BY	1-24-76	J. J. J.																												
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D	96214	945007																																				
SCALE	SHEET																																					
NONE	1 OF 5																																					
TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas																																						
LOGIC DIAGRAM - CRU EXPANSION BOARD																																						





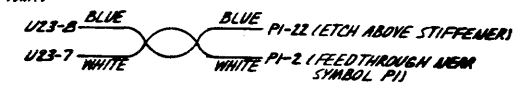




SIZE	CODE IDENT NO	DRAWING NO
D	96214	945007
SCALE 1/1		SHEET 5

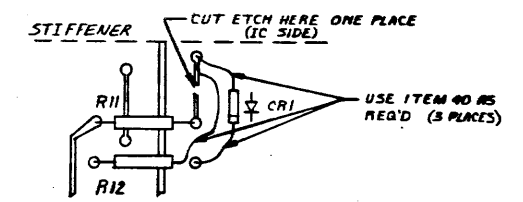
- NOTES:
1. REWORK FOR -0002 ASSY (ALL PWB REVISIONS)
 - A. CUT PIN 3 OF IC U15
 - B. USING 30 GA BARE WIRE, WIRE PIN 1 OF IC U15 TO ETCH FROM PIN 3 OF IC U15. WIRE ON COMPONENT SIDE OF BOARD
 - C. USING 30 GA INSULATED WIRE, WIRE PIN 7 OF U16 TO P3-4 TO P3-5 TO P3-7 ON CONDUCTOR SIDE OF BOARD
 - D. USING 30 GA INSULATED WIRE, WIRE PIN 6 OF IC U14 TO PIN 18 OF IC U14 ON CONDUCTOR SIDE OF BOARD
 - E. REMOVE JUMPER J2 FROM P4
 - F. INSTALL JUMPER REMOVED IN NOTE "E" IN LOCATION DI-1 TO DI-2
 - G. APPLY ITEM 4 TO WIRES AS NECESSARY
 - H. CHANGE ASSY DASH NO FROM 1 TO 2 (CONG ZONE D-6)
 - J. ADD NOTE TO ASM DWG FOR -0002 ASM "TEST ASM BEFORE MODIFYING FOR -0002. NO TEST REQUIRED AFTER MODIFICATION"

2. REWORK ASSEMBLY USING REV D OR EARLIER PWB AS FOLLOWS:

- A. CUT ETCH CONNECTED TO U23-B TWO PLACES: (NEAR U23-B AND 1.00 INCHES FROM EDGE OF PWB AT P1)
- B. USING ITEM 39 ADD THE FOLLOWING TWISTED PAIR:
 

3. REWORK FOR ASSEMBLIES USING REV D AND EARLIER PWB

- A. CUT ETCH ONE PLACE AND INSTALL R12 AND CRI AS SHOWN BELOW



- B. VERIFY TOP LEAD OF CRI IS NOT SHORTED TO STIFFENER

SIZE	CODE IDENT NO	DRAWING NO
D	96214	944905
SCALE	1:1	SHEET 2

TEXAS INSTRUMENTS INCORPORATED		DATE 12/11/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944905-0001		REV P	
QTY	DESCRIPTION	PART NUMBER	VENDOR PART NUMBER	QTY	DESCRIPTION	PART NUMBER	VENDOR PART NUMBER	QTY	DESCRIPTION	PART NUMBER	VENDOR PART NUMBER
00001.000	EA	0944906-0001	PWB-CRU BUFFER, 990								
REF	EA	0944907-9901	LOGIC DIAGRAM-CPU BUFFER, 990								
REF	EA	0944908-9901	TEST PROCEDURE-CRU BUFFER, 990								
REF	EA	0544909-9901	SPECIFICATION-CPU BUFFER, 990								
00002.000	EA	0222222-7403	NETWORK SN7403N								
			U15 U20								
00007.000	EA	0222222-7150	NETWORK SN74150N								
			U1 U2								
00002.000	EA	0222222-7154	NETWORK SN74154N				-SN74154N				
			U3 U4								
00001.000	EA	0222222-7451	NETWORK SN7451N				-SN7451N				
			U17								
00001.000	EA	0222222-7474	NETWORK SN7474N				-SN7474N				
			U22								
00001.000	EA	0222222-7442	NETWORK-SN7442N								
			U9								
00001.000	EA	0222222-7414	NETWORK SN7414N								
			U21								
00001.000	EA	0222222-7163	NETWORK SN74163N								
			U11								

TEXAS INSTRUMENTS INCORPORATED		DATE 12/11/78		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944905-0001		REV P	
QTY	DESCRIPTION	PART NUMBER	VENDOR PART NUMBER	QTY	DESCRIPTION	PART NUMBER	VENDOR PART NUMBER	QTY	DESCRIPTION	PART NUMBER	VENDOR PART NUMBER
00001.000	EA	0222222-7400	NETWORK SN7400N				-SN7400N				
			U10								
00001.000	EA	0740000-7106	NETWORK SN74H106N								
			U12								
00008.000	EA	0240000-7440	NETWORK-SN74H40N								
			U7 U8 U13 U14 U18 U19 U23								
			U24								
00003.000	EA	0972141-3057	NETWORK,RES. 4.7 K OHM 2 X 14 PIN DIP				BEC - 899-1-R4.7K				
			U5 U6 U16								
00001.000	EA	0972946-3033	RES FIX 47.0 OHM 5 X .25 W CARBON FILM				ROH - R-25				
			R10								
00001.000	EA	0972946-3045	RES FIX 150 OHM 5 X .25 W CARBON FILM				ROH - R-25				
			R12								
00001.000	EA	0972946-0049	RES FIX 220 OHM 5 X .25 W CARBON FILM				ROH - R-25				
			R11								
00001.000	EA	0972946-0053	RES FIX 330 OHM 5 X .25 W CARBON FILM				ROH - R-25				
			R1								
00001.000	EA	0972946-0057	RES FIX 470 OHM 5 X .25 W CARBON FILM				ROH - R-25				
			R9								
00001.000	EA	0972753-0016	CAP., 330 PF, 25VDC, CERAMIC, AXIAL LEAD								

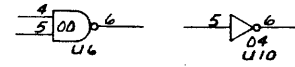
TEXAS INSTRUMENTS INCORPORATED		DATE 12/11/78		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0944905-0001		REV P	
QTY	DESCRIPTION	PART NUMBER	VENDOR PART NUMBER	QTY	DESCRIPTION	PART NUMBER	VENDOR PART NUMBER	QTY	DESCRIPTION	PART NUMBER	VENDOR PART NUMBER
			C1								
00010.000	EA	0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+85C,-20C								
			C2 THRU C11								
00002.000	EA	0945239-0001	BRACKET-STIFFENER, PWB, 14IN								
00002.000	EA	0944954-0001	INSULATOR, PWB, 14IN								
00006.000	EA	0972684-0002	SCREW, THD FRNG, HEX WSHR HD, 2-56X1/4 LG								
00001.000	EA	0972946-0065	RES FIX 1.0K OHM 5X .25 W CARBON FILM				ROH - R-25				
			R8								
00004.000	EA	0972946-0081	RES FIX 4.7K OHM 5 X .25 W CARBON FILM				ROH - R-25				
			R2 R3 R4 R6								
00001.000	EA	0972698-0002	CONNECTOR,PWB,26P,RT-A,SDRTL,HDR,FLTCBL								
			P3								
00004.000	EA	0411226-0002	TERMINAL,STUD								
			E1 THRU E4								
00002.000	EA	0972713-0031	PLUG, JUMPER, I.C., 0.300 INCH								
			J1 J2								
00004.000	EA	0996864-0001	CONNECTOR, SOCKET PCB				022526-75360-007				
			D11 THRU D14								
00002.000	EA	0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB								
00002.000	EA	0572924-0010	CAP FIX TANT SOLID 22 MFD 10 X 15 VOLT OPL				-M39303/1-2271				

TEXAS INSTRUMENTS INCORPORATED		DATE 12/11/78		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0944905-0001		REV P		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0035A					C12 C13							
0036	00001.000	EA		0972946-0047	RES FIX 180 OHM 5 % .25 W CARBON FILM R5	ROH - R-25						
0036A												
0037	00001.000	EA		0972137-0001	CONNECTOR,PC-HEADER 20 CONTACT P5	BEI - 55483-001						
0037A												
0038	00001.000	EA		0572212-0014	X SOCKET, IC 14 PIN DUAL-IN-LINE P4	ECT -7314-265-5						
0038A												
0039	00001.000	FT		0966760-2896	WIRE,TWISTED PAIR #28 WHT/BLU IPVC	UL - 1472 75TR UL						
0040	00000.100	FT		0410499-0006	INSULATION SLEEVING,TEFLON #22 NATURAL	QPL -81349						
0041	00001.000	EA		0972932-0001	DIODE,IN914B SWITCHING 75V PIV 75MA 4MS CR1	TI - 149148						
0041A												
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE 990 CRU BUFFER,990 TO 990 EXP CHASSIS					
APP. ENG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0944905-0001		REV P		

TEXAS INSTRUMENTS INCORPORATED		DATE 12/11/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944905-0002		REV P		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0944905-0001	990 CRU BUFFER,990 TO 990 EXP CHASSIS							
0002	REF	EA		0949014-9901	LOGIC DIAGRAM,CRU BUFFER,960 TO 990 CH							
0003	00001.500	FT		0535978-0058	WIRE ELEC., SOLID,"KYNAR" INSUL #30 AWG							
0004	AR	EA		0996069-0003	ADH,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE 990 CRU BUFFER,960 TO 990 EXP CHASSIS					
APP. ENG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0944905-0002		REV P		

Buffer Board Logic Diagram

- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES ARE PREFIXED WITH SMT
 2. GRIND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



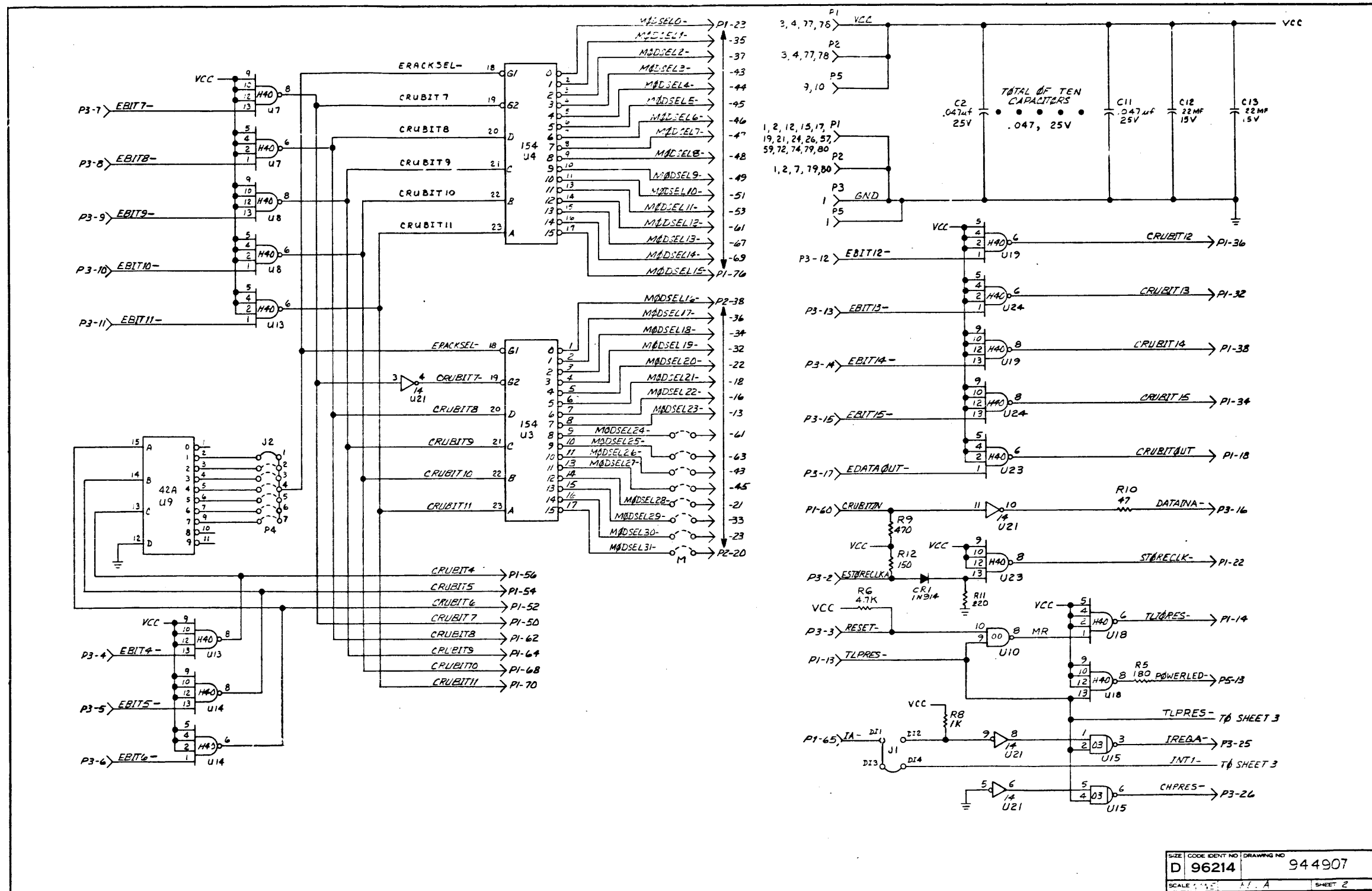
- 00 AND 04 = DEVICE TYPE
 4, 5, AND 6 = PIN NUMBERS
 U6 AND U10 = REFERENCE DESIGNATOR
5. ALL RESISTORS 1/4 WATT, 5%

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		(N42434) (C) (WIP)	5-9-78	[Signature]

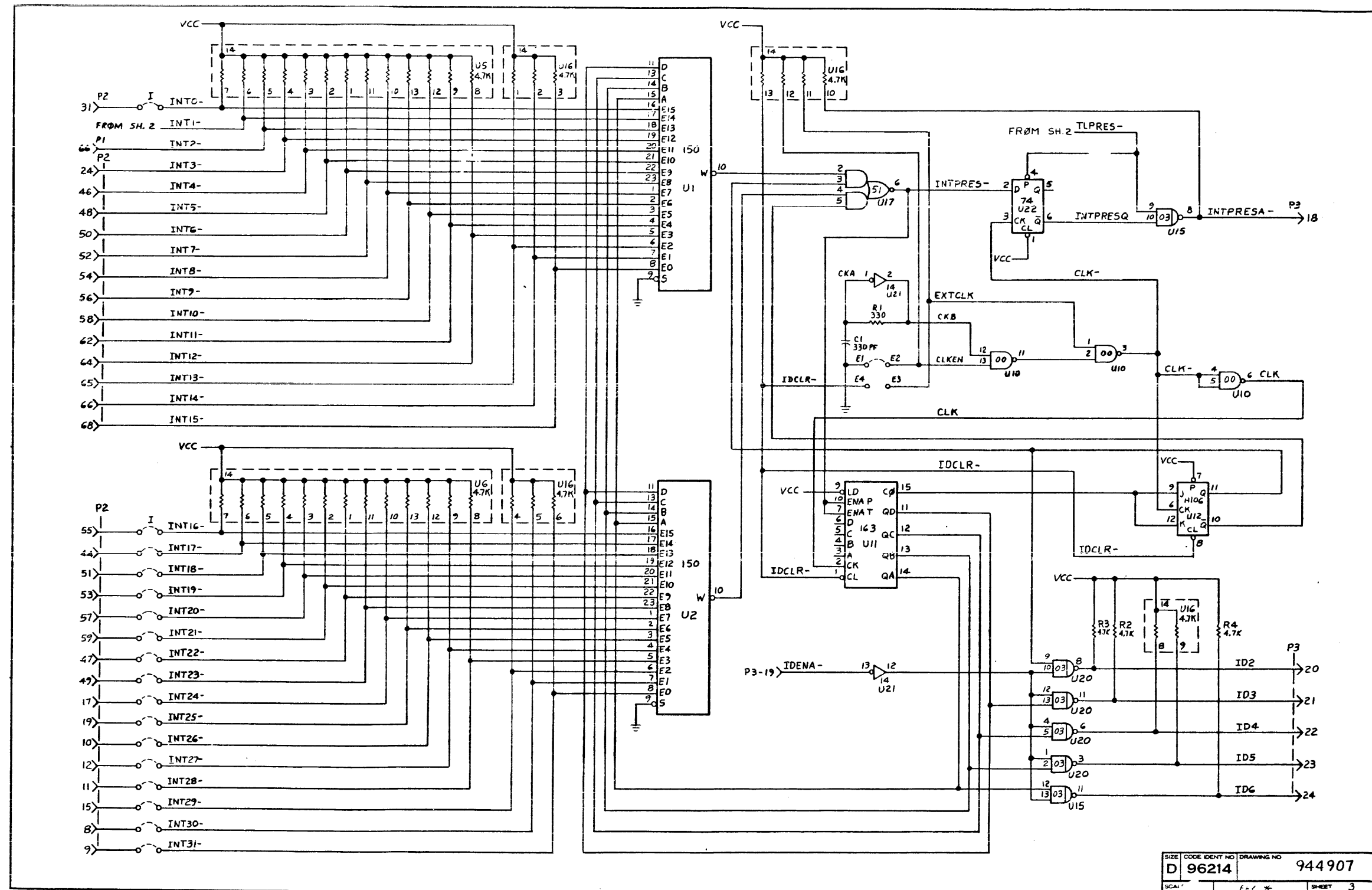
REV STATUS	REV	A	A	#
OF SHEETS	SHEET	1	2	3

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
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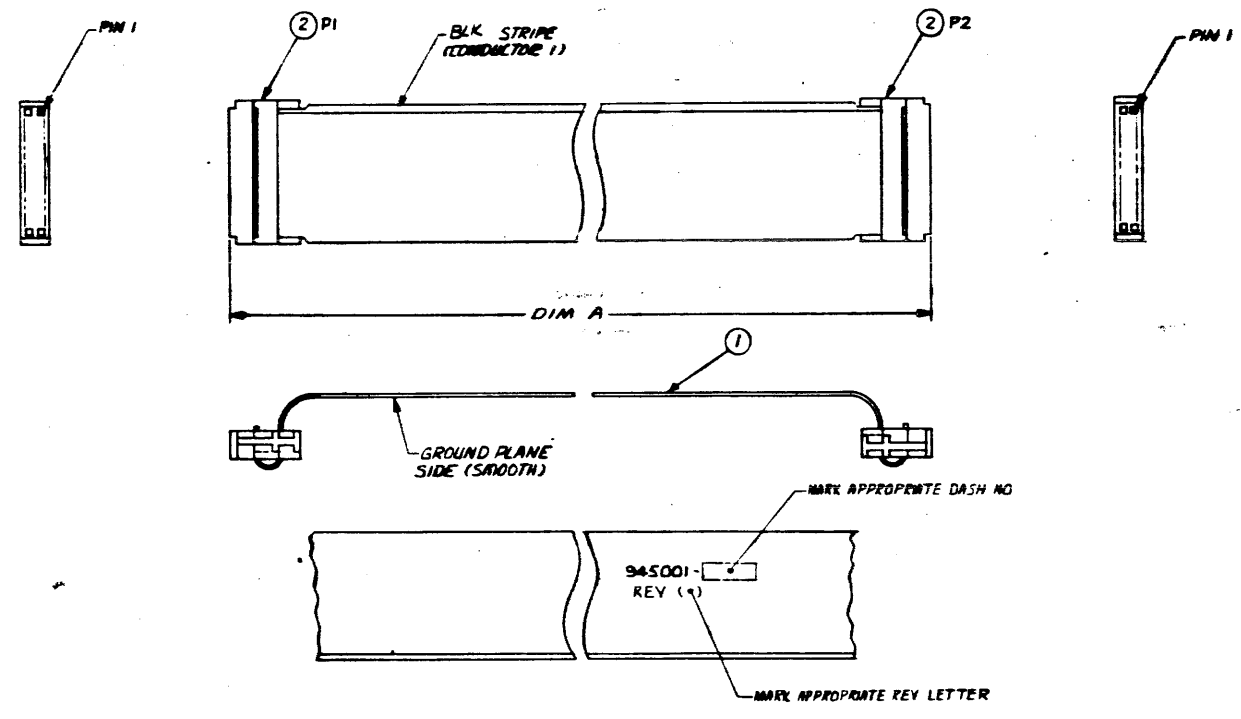
UNLESS OTHERWISE SPECIFIED - REMOVE ALL BURRS AND SHARP EDGES - CONCENTRICITY MACHINED DIAMETERS .010 FIR - DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING - IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY - INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES - TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02	DWN 10/10/78	DATE 1-29-76	TEXAS INSTRUMENTS INCORPORATED Dallas, Texas	
		ENGR [Signature]	GA [Signature]		LOGIC DIAGRAM - CRU BUFFER BOARD
HOLE TOLERANCE .013 THRU .004 ±.004 .125 THRU .001 ±.001 .008 THRU .001 ±.001 1.000 THRU .001 ±.001	APPLICATION	CONTR NO DESIGN ACTIVITY RELEASE [Signature]	SIZE D	CODE IDENT NO 96214	DRAWING NO 944907
			SCALE	SHEET 1 OF 3	



SIZE	CODE IDENT NO	DRAWING NO
D	96214	944907
SCALE	1:1	SHEET 2



- NOTES:**
1. THIS ASSEMBLY IS NOT SUITABLE FOR FUTURE DESIGN REFER TO DRAWING 226 2 085
 2. ITEM 101 IN -0001 LM CONSISTS OF BULK CABLE ASSY MATERIAL
 3. BLACK STRIPE CONDUCTOR REGISTERS WITH CONNECTOR PINS 1



945001-0001	BULK CABLE ASSY MATERIAL FOR -0001
945001-0002	CABLE ASSY, CRU EXPANSION
945001-0001	CRU EXPANSION CABLE
PART NO	DESCRIPTION

945001-0002	72.00 ± 2.00
945001-0001	144.00 ± 2.00
PART NUMBER	DIM A

PROCESSES:
 1. MARK PER F-100, METHOD II, CLASS I, HEIGHT .25, COLOR BLACK

UNLESS OTHERWISE SPECIFIED

REMOVE ALL BURRS AND SHARP EDGES	
CONCENTRICITY MACHINED DIAMETERS .010 F&F	
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	
INTERPRET DRAWINGS IN ACCORDANCE WITH MIL-STD-100	
HOLE TOLERANCE	
Ø13 - .004	THRU .008
THRU .125	.001
.001	.001
THRU .008	.001
THRU .125	.001
THRU .001	.001

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES	
TOLERANCES	
ANGLES	
3 PLACE DECIMALS - .010	
2 PLACE DECIMALS - .02	

QTY REQD	TEMP	CODE	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST					
			DATE	TEXAS INSTRUMENTS	
			1-30-76	Equipment Group Dallas Texas	
			2/3/76	CABLE ASSEMBLY, CRU EXPANSION	
			2/10/76		
			2/10/76	SIZE CODE DENT NO, DRAWING NO	
			2/10/76	D 96214 945001	
			2/10/76	SHEET	

REVISIONS				
ZONE	LTN	DESCRIPTION	DATE	APPROVED
A		CN 332 766 (E) A. GRAM (1) ADDED	6-13-76	J.R.P.
B-S	B	CN 40717 (C) S. (1) ADDED ASSY NO. PART MARKING, APPROPRIATE DASH NO. & APPROPRIATE REV LETTER	5/1/76	J.R.P.
C		CN 42189 (D) S. (1) ADDED DESIGNATIONS FOR PINS 2, 25 & 26	2-17-77	J.R.P.
D		CN 42855 (C) S. (1) ADDED ITEM 4 TO -0001 AND -0002 LM	1-13-78	J.R.P.
E		CN 44275 (E) S. (1) ADDED CHANGED TO INACTIVE FOR FUTURE DESIGN	2/7/78	J.R.P.
F		CN 44822 (C) S. (1) THIS DWG WAS INACTIVE FOR FUTURE DESIGN (ADDED NOTE 1)	1-9-79	J.R.P.
G		CN 45939 (D) S. (1) IN C-4 DELETED CALL OUT OF PINS 2, 25 AND 26	2-18-79	J.R.P.
H		CN 43742 (C) S. (1) ADDED -5001 LM ALSO DELETED SAME ITEM NOS FROM RESPECTIVE LIMS (2) ADDED ITEM NO NOW TO EXISTING LM -0001 (3) ADDED FLAG NOTE (2) (4) ADDED PIN BLOCK	11-23-79	J.R.P.
J		CN 44658 (C) S. (1) ZNS 23755, ADDED LEADER LINES AND INSTRUCTIONS "MARK" TO EXP AND BUF (2) IN PROCESS MARKING HEIGHT WAS .09	11-28-79	J.R.P.
K		CN 44742 (C) S. (1) ZNS 23755, DELETED TRIANGLES (2) ADDED NOTE (3) DELETED EXP AND BUF PLUS LEADER LINES AND INSTRUCTIONS (4) ON LIMS -0001 AND -0002 ITEM 2, PIN WAS 972697-0003	11-28-79	J.R.P.
L		CN 43372 (C) S. (1) ON LM -0001 & -0002 ITEM 2, PIN WAS 972697-0003 DELETED ITEM 3 (2) DELETED ITEM 101 FROM FID	1-8-80	J.R.P.

Expansion Cable

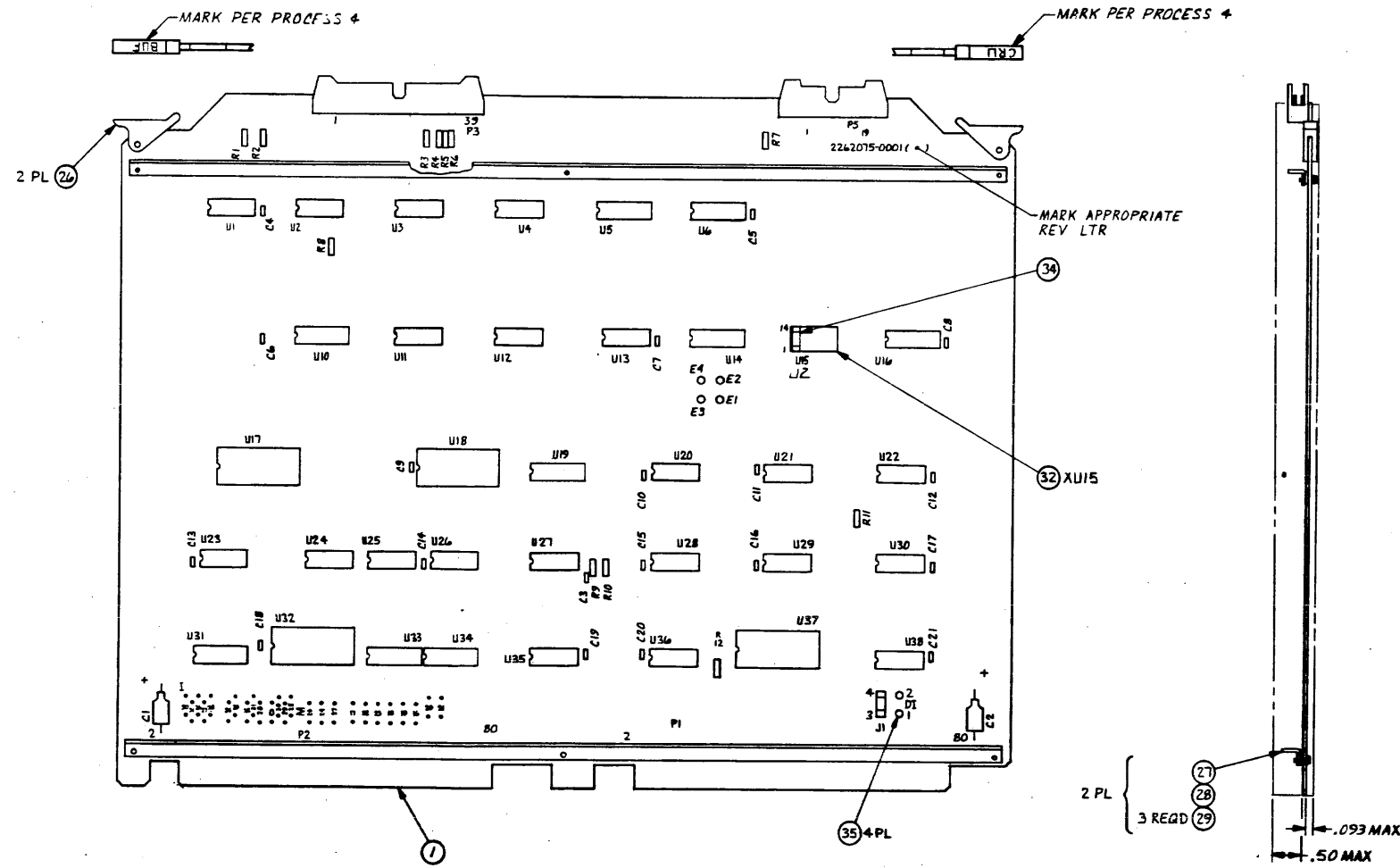
TEXAS INSTRUMENTS INCORPORATED		DATE 12/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945001-0001		REV L	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	00002.000	EA		0972697-0003	CONNECTOR,FLTCBL,26P,CBL MTG W/STR RLF						
0002A					P1 P2						
0004	REF	EA		0941916-9901	TEST PROCEDURE,OMNI INTERFACE NO. 2						
0101	00001.000	EA		0945001-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001						
DRAFTSMAN		DATE	CHK'D DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
			<i>J. P. ...</i>	12-18-79			CRU EXPANSION CABLE				
APP'D. ENG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
							7506	LM 0945001-0001		L	

TEXAS INSTRUMENTS INCORPORATED		DATE 12/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945001-5001		REV L	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00012.000	FT		0972694-0002	CABLE,FLAT,26 CONDUCTOR,GND PLANE,DRAIN						
DRAFTSMAN		DATE	CHK'D DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							BULK CABLE ASSEMBLY MATERIAL FOR -0001				
APP'D. ENG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 0945001-5001		L	

TEXAS INSTRUMENTS INCORPORATED		DATE 12/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945001-0002		REV L	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00006.000	FT		0972694-0002	CABLE,FLAT,26 CONDUCTOR,GND PLANE,DRAIN						
0002	00002.000	EA		0972697-0003	CONNECTOR,FLTCBL,26P,CBL MTG W/STR RLF						
0002A					P1 P2						
0004	REF	EA		0941916-9901	TEST PROCEDURE,OMNI INTERFACE NO. 2						
DRAFTSMAN		DATE	CHK'D DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							CABLE ASSY,CRU EXPANSION				
APP'D. ENG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 0945001-0002		L	

NOTES: UNLESS OTHERWISE SPECIFIED
 1. U7, U8 AND U9 ARE SPECIAL
 2. REWORK PROCEDURE FOR PWB 2262076, REV A:
 A. CONNECT U8 PIN 7 TO GROUND (UNUSED HOLE NEXT TO PIN 7) WITH NO. 24 SOLID BUS WIRE (# 400-24)

REV	DESCRIPTION	DATE	APPROVED
A	CV 43378 (C) Deleted (1) ADDED NAME 2 (2) UPDATED ELEVATION LEVEL BLOCK	10-17-79	<i>E. J. King</i>
B	CV 44740 (D) Deleted (1) Deleted LMS DELETED ITEMS 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27 AND ADDED TO -5001 LMS (2) UPDATED REVISION LEVEL BLOCK (3) ADDED ITEM 40 TO -0001	10-17-79	<i>E. J. King</i>
C	CV 43354 (E) Deleted (1) Deleted IN ZONE 64 DELETED J2 FOR GHT (2) IN ZONE C-5, ADDED J2 JUST UNDER LUMER PLUG IN LOCATION U15 (3) UPDATED REV STATUS BLOCK FOR ASSY AND FWB	10-17-79	<i>E. J. King</i>



4	MARK	100-07	712	CLR BLK, TYPE 6
3	MARK	100-02	21	HGT .12, CLR BLACK
2	SLDR	124-02	00	
1	SLDR	127-01	00	

TEST PROC	2262079-9901	*	*	*	*
LOGIC	2262077-9901	*	*	*	*
PWB	2262076-0001	A	B	B	B
ASSY	2262075-0001	*	A	B	C

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES								
PARTS LIST													
UNLESS OTHERWISE SPECIFIED													
• DIMENSIONS ARE IN INCHES													
• TOLERANCES: ANGLES ±1°													
• 3 PLACE DECIMALS ±.010													
• 2 PLACE DECIMALS ±.02													
• INTERPRET DRAWING PER MIL-D-1000													
• REMOVE ALL BURRS AND SHARP EDGES													
• CONCENTRICITY MACHINED DIAMETERS: .010 P/M													
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES													
• PARENTHEetical INFO FOR REF ONLY													
HOLE TOLERANCE													
.013 - .004		.126 - .008		.251 - .008									
THRU - .001		THRU - .001		THRU - .001									
.125 - .001		.250 - .001		.500 - .001									
.501 - .008		.751 - .010		1.001 - .012									
THRU - .001		THRU - .001		THRU - .001									
.750 - .001		1.000 - .001		2.000 - .001									
<table border="0" style="width: 100%;"> <tr> <td>DATE: 4-15-78</td> <td>DESIGNED BY: [Signature]</td> </tr> <tr> <td>DATE: 5-23-78</td> <td>CHECKED BY: [Signature]</td> </tr> <tr> <td>DATE: 9-18-78</td> <td>APPROVED BY: [Signature]</td> </tr> <tr> <td>DATE: 11/31/78</td> <td>DATE: 11-2-78</td> </tr> </table>						DATE: 4-15-78	DESIGNED BY: [Signature]	DATE: 5-23-78	CHECKED BY: [Signature]	DATE: 9-18-78	APPROVED BY: [Signature]	DATE: 11/31/78	DATE: 11-2-78
DATE: 4-15-78	DESIGNED BY: [Signature]												
DATE: 5-23-78	CHECKED BY: [Signature]												
DATE: 9-18-78	APPROVED BY: [Signature]												
DATE: 11/31/78	DATE: 11-2-78												
7506				APPLICATION									
NEXT ASSY USED ON				DRAWING NO. 2262075									
APPLICATION				SHEET 1 / 1									

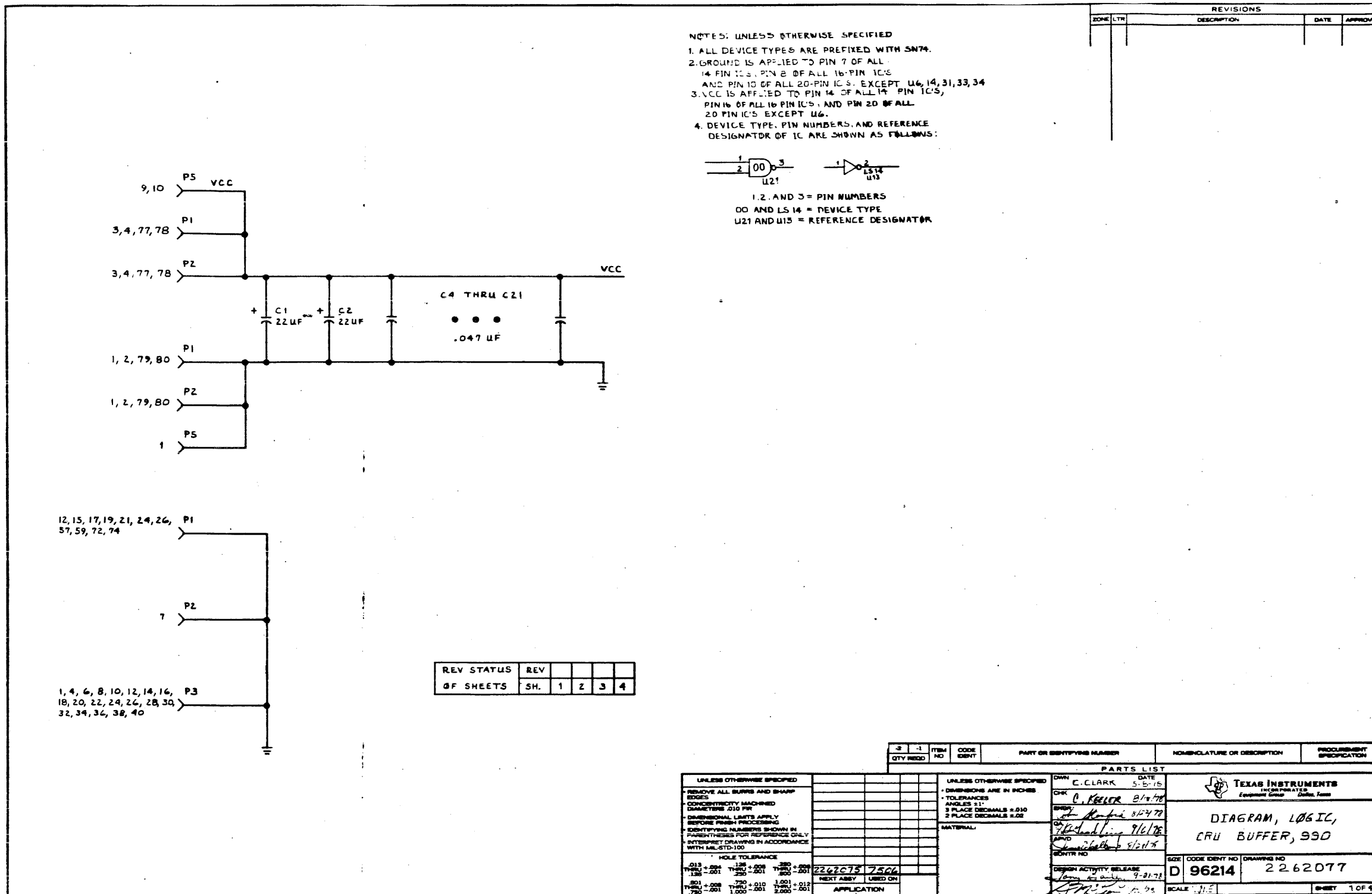
TEXAS INSTRUMENTS INCORPORATED		DATE 09/06/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2262075-0001		REV C 2	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	REF	EA		2262077-9901	LOGIC DIAGRAM, CRU BUFFER, 990						
0003	REF	EA		2262078-9901	SPECIFICATION, CRU BUFFER, 990						
0004	REF	EA		2262079-9901	TEST PROCEDURE, CRU BUFFER, 990						
0013	00002.000	EA		022222-7150	NETWORK SN74150N						
0013A					U17, U18						
0015	00002.000	EA		022222-7154	NETWORK SN74154N	-SN74154N					
0015A					U32, U37						
0023	00002.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 & 15 VOLT	QPL -M39003/1-2271					
0023A					C1, C2						
0024	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0027	00002.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN						
0028	00002.000	EA		0944954-0001	INSULATOR, PWB, 14IN						
0029	00006.000	EA		0972684-0002	SCREW, THD FRMG, HEX MSNR HD, 2-56X1/4 LG						
0030	00001.000	EA		0972137-0004	CONNECTOR, P.C. HEADER 40 CONTACT ANGLE	763813-432-1002					
0030A					P3						
0031	00001.000	EA		0972137-0001	CONNECTOR, P.C-HEADER 20 CONTACT	BE1 - 65483-001					
0031A					P5						
0032	00001.000	EA		0972212-0014	X SOCKET, IC 14 PIN DUAL-IN-LINE	ECT -7014-265-5					
0032A					XU15						
0033	00004.000	EA		0411224-0002	TERMINAL, STUD						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
			J. R. ...	9-10-79			CRU BUFFER, 990				
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV	
							7506	LM2262075-0001		C 2	

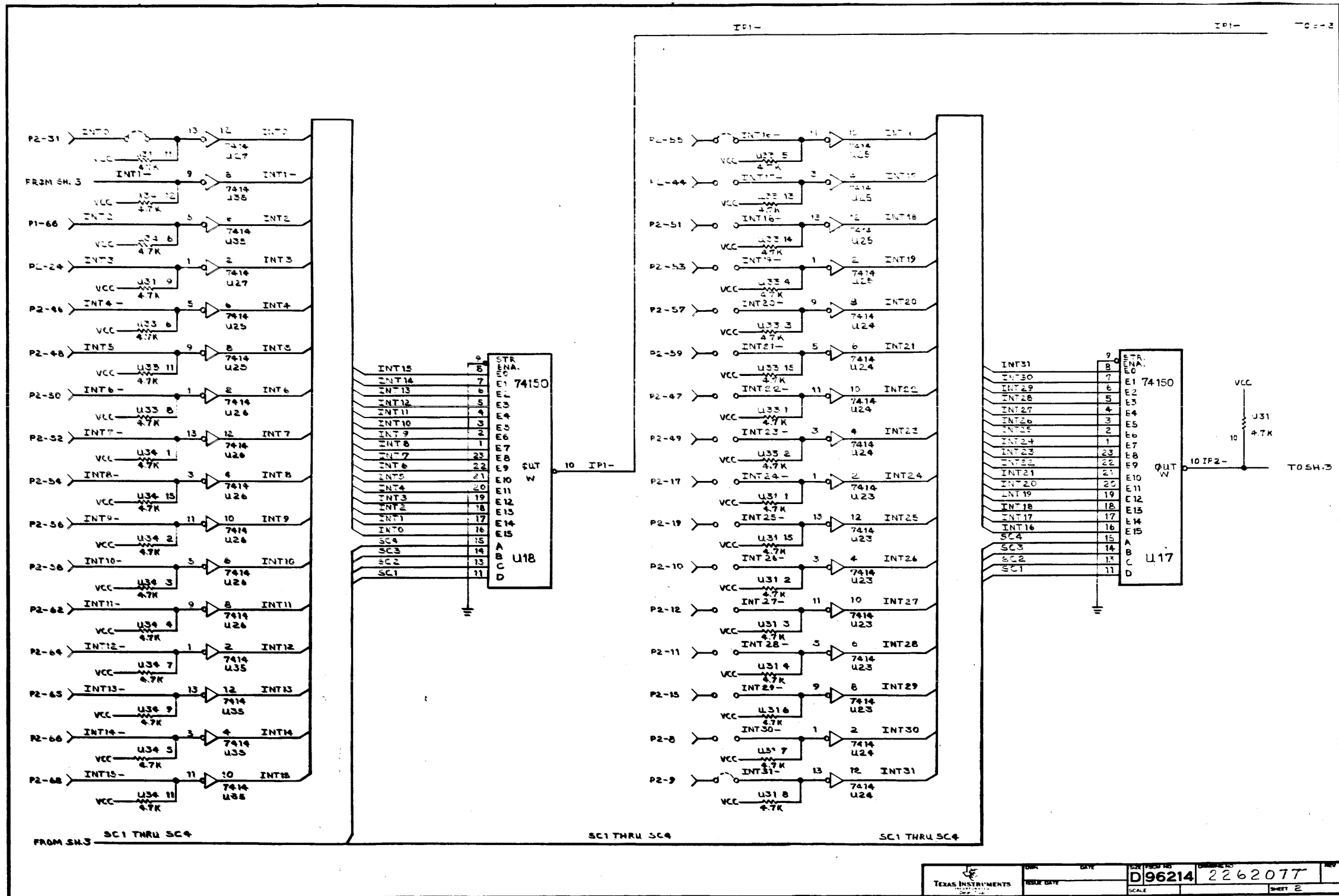
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ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0033A					E1 THRU E4						
0034	00002.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH						
0034A					J1 J2						
0035	00004.000	EA		0972742-0001	SOCKET, SINGLE LEAD, PWB MTC.						
0035A					D11, D12, D13, D14						
0040	00001.000	EA		2262075-5001	AUTO INSERTION TAPE FOR 2262075-0001						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							CRU BUFFER, 990				
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV	
								LM2262075-0001		C 2	

TEXAS INSTRUMENTS INCORPORATED		DATE 09/06/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2262075-5001		REV C 2	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2262076-0001	PWB, CRU BUFFER, 990	-SN7400N					
0005	00001.000	EA		022222-7400	NETWORK SN7400N						
0005A					U13						
0006	00009.000	EA		022222-7414	NETWORK SN7414N						
0006A					U1, U2, U3, U23 THRU U27, U35						
0007	00001.000	EA		022222-7438	NETWORK SN7438N						
0007A					U4						
0008	00008.000	EA		0240000-7440	NETWORK-SN7440N						
0008A					U20, U21, U22, U28, U29, U30,						
0008B					U34, U38						
0009	00001.000	EA		022222-7451	NETWORK SN7451N	-SN7451N					
0009A					U11						
0010	00001.000	EA		022222-7474	NETWORK SN7474N	-SN7474N					
0010A					U12						
0011	00001.000	EA		0240000-7106	NETWORK SN74H106N						
0011A					U6						
0012	00001.000	EA		0219482-7138	NETWORK SN74S138N						
0012A					U16						
0014	00001.000	EA		022222-7151	NETWORK SN74151N						
0014A					U10						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							AUTO INSERTION TAPE FOR 2262075-0001				
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV	
								LM2262075-5001		C 2	

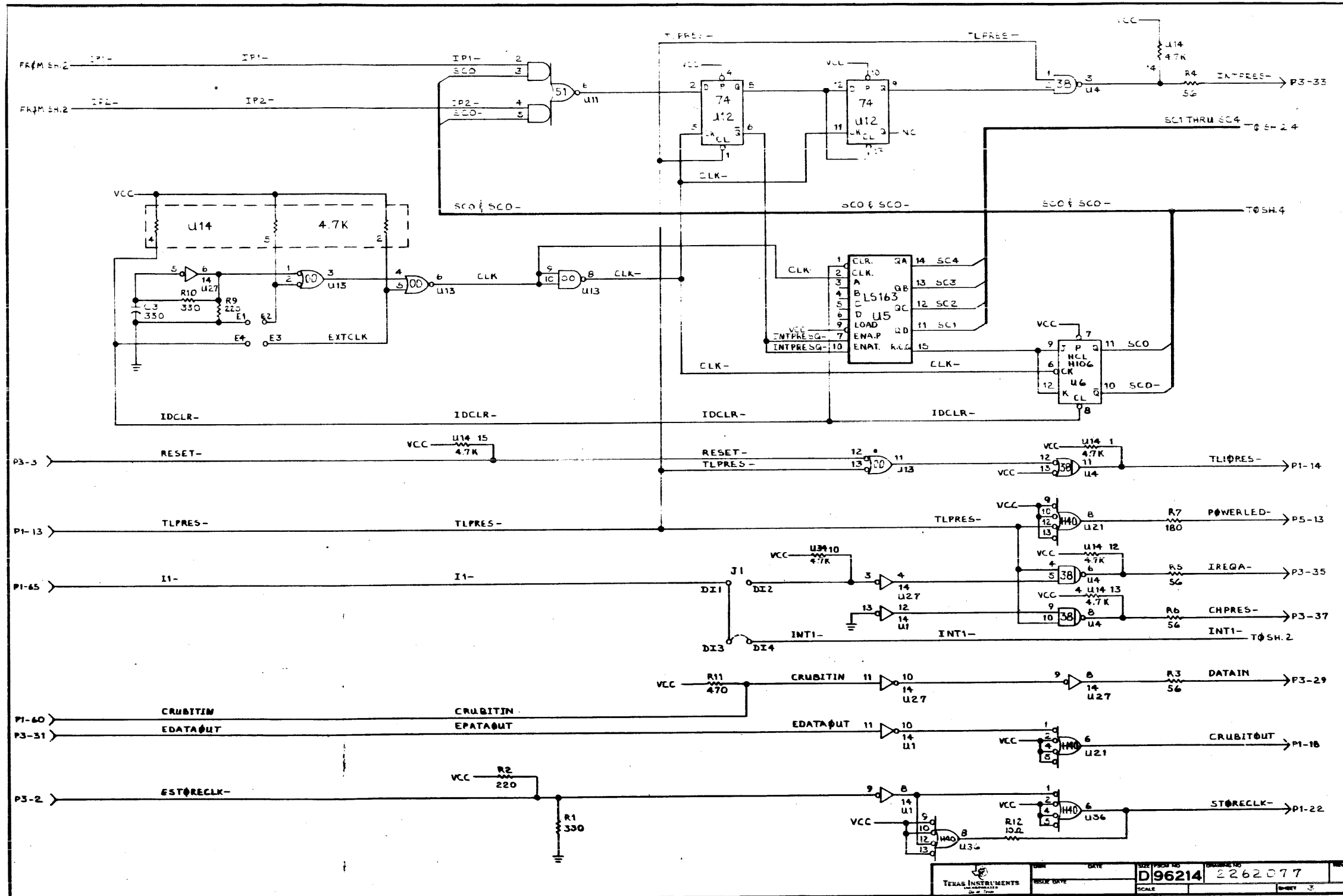
TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 09/06/79		PAGE 2 of		PART NUMBER LM2262075-5001		REV C 8	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0016	00001.000	EA		0972669-0001	NETWORK,SN74LS163N						
0016A					U5						
0017	00004.000	EA		0800110-0013	RESISTOR, FIXED-ARRAY, 4.7K						
0017A					U14 U31 U33 U34						
0018	00005.000	EA		0972946-0035	RES FIX 56.0 OHM 5 % .25 W CARBON FILM	ROH	-	R-25			
0018A					R3 R4 R5 R6 R8						
0019	00001.000	EA		0972946-0047	RES FIX 180 OHM 5 % .25 W CARBON FILM	ROH	-	R-25			
0019A					R7						
0020	00001.000	EA		0972946-0049	RES FIX 220 OHM 5 % .25 W CARBON FILM	ROH	-	R-25			
0020A					R2						
0021	00002.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH	-	R-25			
0021A					R1 R10						
0022	00002.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH	-	R-25			
0022A					R9 R11						
0024	00001.000	EA		0972753-0014	CAP., 330 PF, 2%, 25VDC, CERAMIC, AXIAL LEAD						
0024A					C3						
0025	00018.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0025A					C4 THRU C21						
0038	00001.000	EA		0240000-7400	NETWORK-SN74H00N						
0038A					U19						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO INSERTION TAPE FOR 2262075-0001			
APPD. MGR.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2262075-5001		REV C 8	

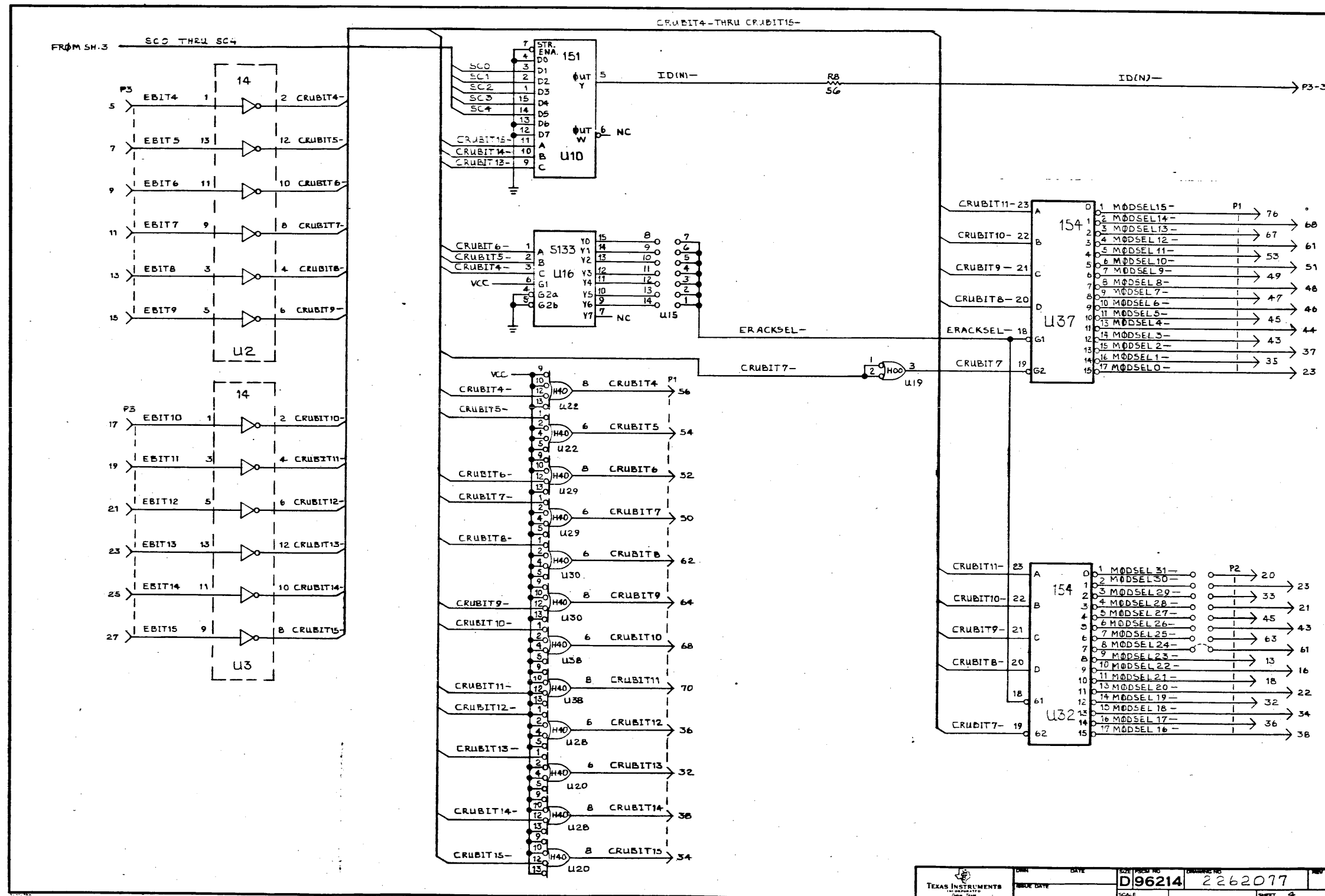
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PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0039	00001.000	EA		0972946-0017	RES FIX 10.0 OHM 5 % .25 W CARBON FILM	ROH	-	R-25			
0039A					R12						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO INSERTION TAPE FOR 2262075-0001			
APPD. MGR.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2262075-5001		REV C 8	





DATE	DATE	DESIGN NO.	2262077
TEST DATE		SCALE	SHEET 2
TEXAS INSTRUMENTS		D 96214	

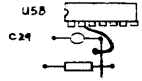




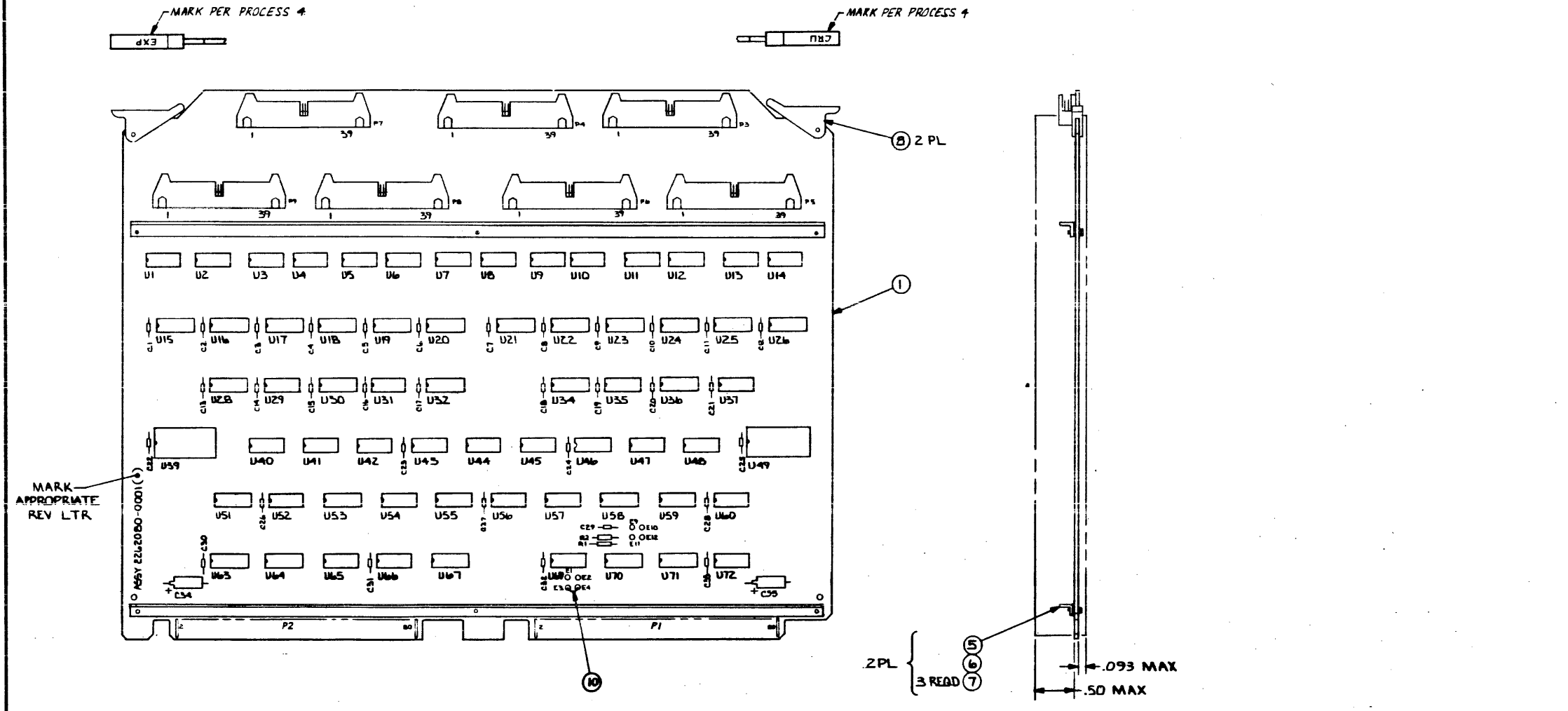
TEXAS INSTRUMENTS CORPORATION	DATE	SCALE	SIZE	PROJECT NO.	DESIGNER NO.	REV.
	DATE	SCALE	D96214	2262077		4

NOTES: UNLESS OTHERWISE SPECIFIED
 1. U27, U33, U38, U50, U61, U62, U68, U73 ARE SPARES
 2. REFERENCE DESIGNATORS E5, E6, E7 AND E8 ARE NOT USED

3. REWORK PROCEDURE FOR PWB 2262081, REV. A: CONNECT U58 PIN 2 TO PLATE-THROUGH HOLE BETWEEN C29 & R 2 WITH NO 26 INSULATED BUS WIRE (45733-7) PER FOLLOWING PICTORIAL



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CHG. 937(D) FROM ITEM 2 WAS 2262081-001R. UPDATED REV. LEVEL BLOCK (2) CREATED -500 L.M.	5-9-79	[Signature]
B	CHG. 937(D) FROM ITEM 2 WAS 2262081-001R. ADDED NOTE 3 AND PICTORIAL 2. UPDATED REV. LEVEL BLOCK (2) CREATED -500 L.M.	10-15-79	[Signature]
C	CHG. 44767(D) FROM ITEM 11. UPDATED REV. LEVEL BLOCK (2) CREATED -500 L.M.	10-15-79	[Signature]



4	MARK	100-07	712	CLR BLK, TYPE G
3	MARK	100-02	21	HGT .12, CLR BLACK
2	SLDR	124-02	00	
1	SLDR	127-01	00	
SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL
PROCESS		CLASSIFICATION		

TEST PRDC	2262084-9901	*	*	*					
LOGIC	2262082-9901	*	*	*					
PWB	2262081-0001	A	A	B					
ASSY	2262080-0001	*	A	B	C				

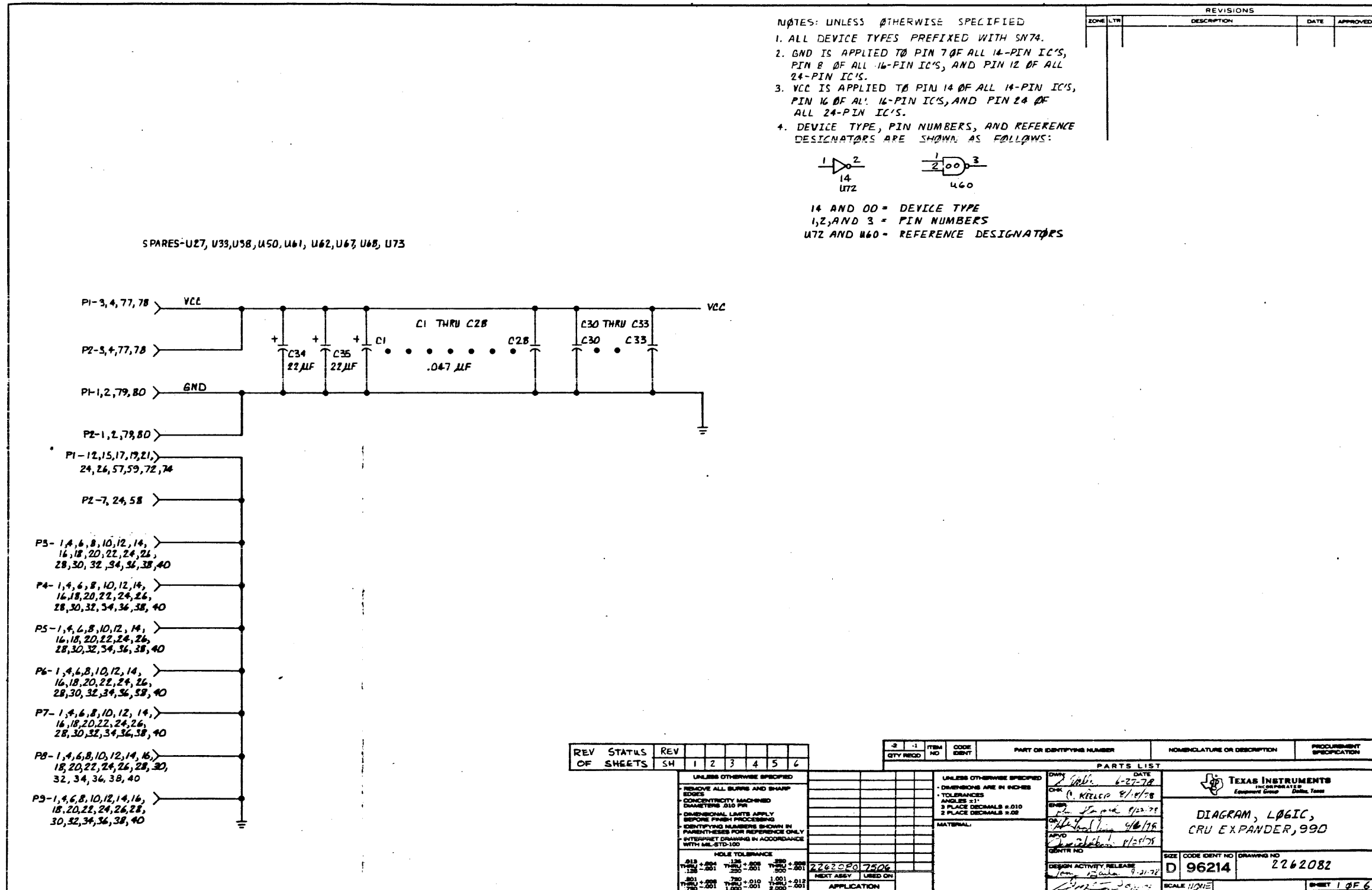
QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
UNLESS OTHERWISE SPECIFIED • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02 • INTERPRET DRAWING PER MIL-D-1000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MATCHED DIAMETERS .010 F/M • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHESES FOR REF ONLY HOLE TOLERANCE .013 +.004 .126 +.005 .251 +.005 THRU .001 THRU .005 THRU .001 .126 +.004 .250 +.001 .500 +.001 .501 +.008 .751 +.010 1.001 +.012 THRU .001 THRU .001 THRU .001 .750 +.001 1.000 +.001 2.000 +.001					
2262086	7506				DATE 7-17-78 [Signature] DATE 5-6-79 [Signature] DATE 9-12-78 [Signature] DATE 10/31/79 [Signature] DATE 11/2-78 [Signature]
NEXT ASSY USED ON APPLICATION			TEXAS INSTRUMENTS INCORPORATED Dallas, Texas CRU EXPANSION, 990 DWG. PART NO. D196214 DRAWING NO. 2262080 SCALE 1/1 SHEET		

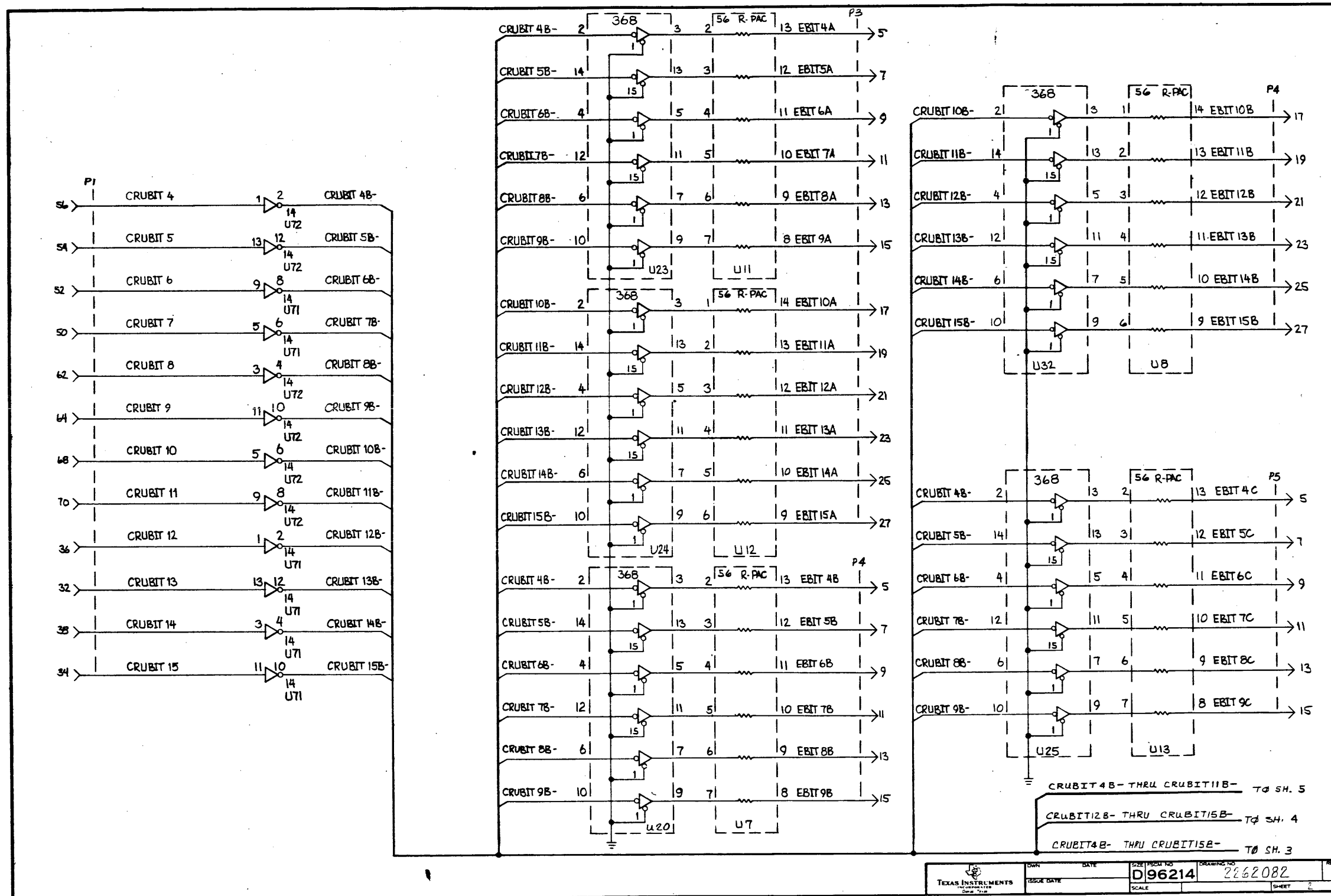
TEXAS INSTRUMENTS INCORPORATED		DATE 08/27/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2262080-0001		REV C		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0002	RFF	EA		2262082-9901	LOGIC DIAGRAM, CRU EXPANSION, 990							
0003	RFF	EA		2262083-9901	SPECIFICATION, CRU EXPANSION, 990							
0004	RFF	FA		2262084-9901	TEST PROCEDURE, CRU EXPANSION, 990							
0005	0002.000	FA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN							
0006	00002.000	FA		0944954-0001	INSULATOR, PWB, 14IN							
0007	00006.000	FA		0972684-0002	SCREW, THD FRMG, HEX WSHR HD, 2-56X1/4 LG							
0008	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB							
0009	00007.000	FA		0972137-0004	CONNECTOR, P.C. HEADER 40 CONTACT ANGLE	763813-432-1002						
0009A					P3 THRU P9							
0010	00000.020	FT		0411400-0024	WIRE, 24AWG ELECTRN TIN PLATED COPPER							
0012	00001.000	EA		0972753-0014	CAP., 330 PF, 2%, 25VDC, CERAMIC, AXIAL LEAD							
0012A					C29							
0013	00007.000	FA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 % 15 VOLT OPL	-M39003/1-2271						
0013A					C34 C35							
0023	00002.000	FA		0222222-7150	NETWORK SN74150N							
0023A					U39 U49							
0029	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25						
0029A					R1							
0030	00001.000	EA		0972946-0049	RES FIX 220 OHM 5 % .25 W CARBON FILM	ROH - R-25						
0030A					R2							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CRU EXPANSION, 990				
APPROVED		DATE	APPROVED PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506				
								PART NUMBER		REV		
								LM2262080-0001		C		

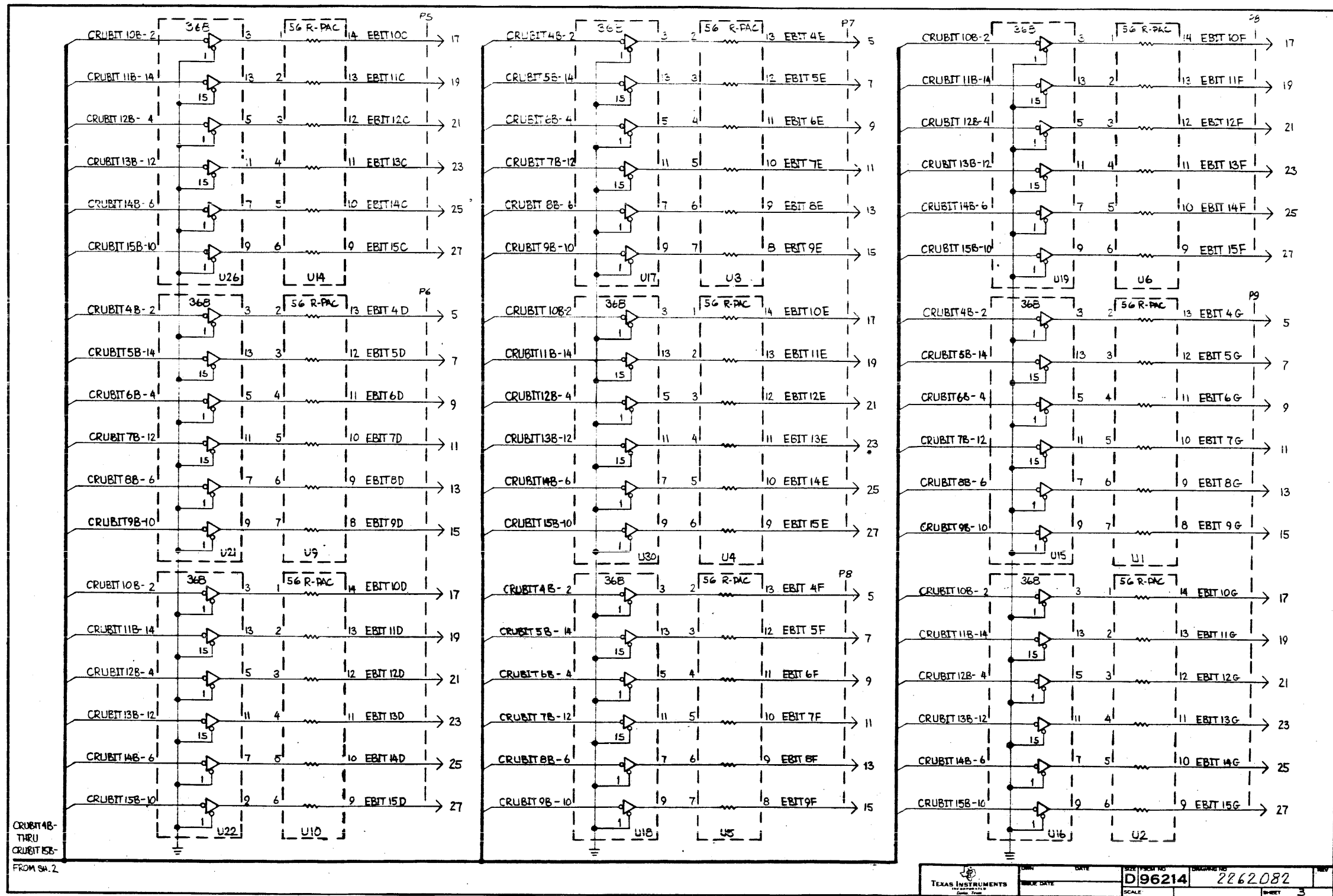
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0031	00001.000	EA		2262080-5001	AUTO-INSERTION TAPE FOR 2262080-0001							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CRU EXPANSION, 990				
APPROVED		DATE	APPROVED PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
								PART NUMBER		REV		
								LM2262080-0001		C		

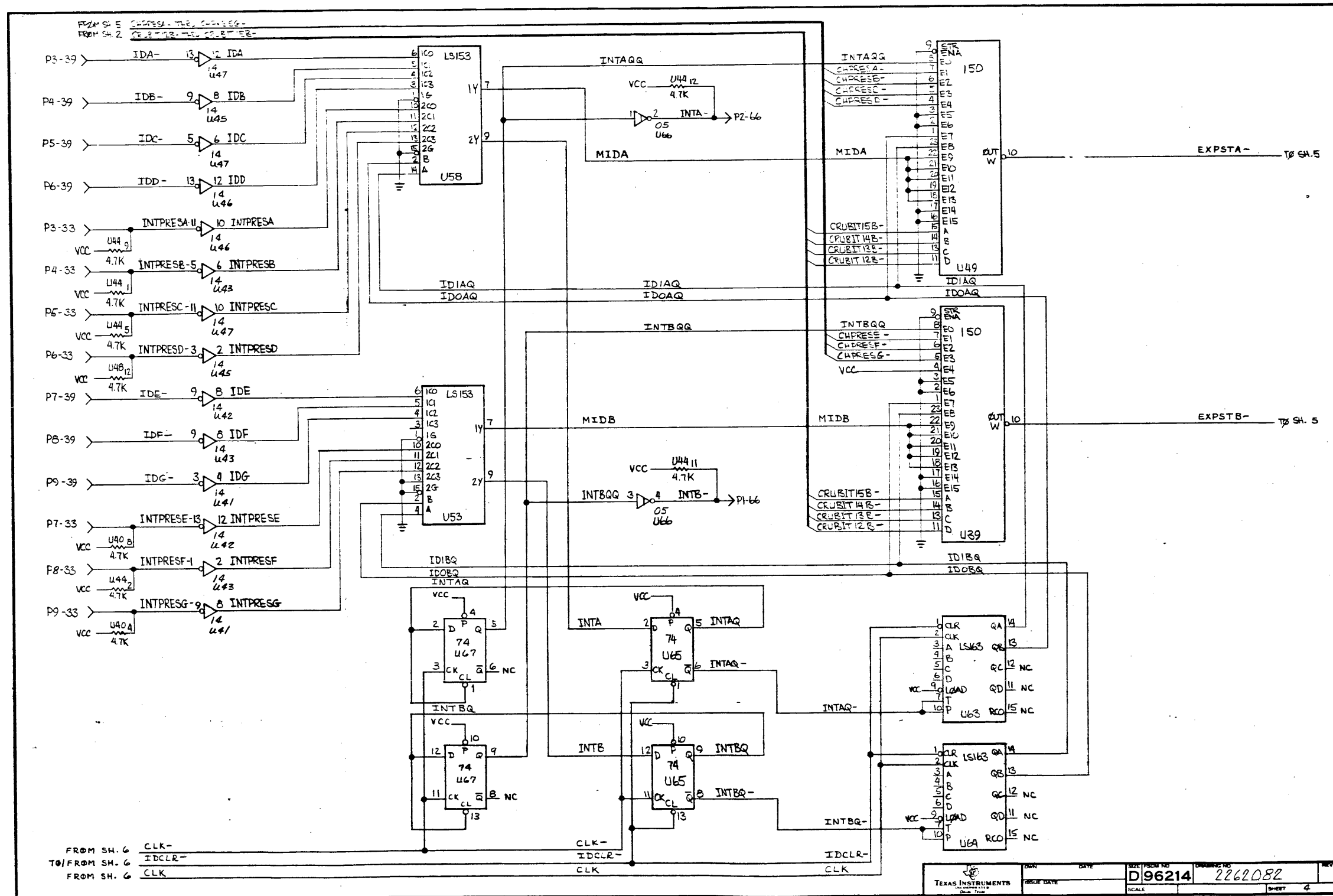
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PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2262081-0001	PWB, CRU EXPANSION, 990							
0011	00032.000	FA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%							
0011A					C1 THRU C28 C30 THRU C33							
0014	00002.000	EA		0222222-7400	NETWORK SN7400N	-SN7400N						
0014A					U55 U60							
0015	00003.000	EA		0222222-7403	NETWORK SN7403N							
0015A					U52 U56 U59							
0016	00001.000	EA		0222222-7404	NETWORK SN7404N							
0016A					U51							
0017	00001.000	EA		0219402-7404	NETWORK SN7404N							
0017A					U69							
0018	00001.000	EA		0222222-7405	NETWORK SN7405N							
0018A					U66							
0019	00009.000	EA		0222222-7414	NETWORK SN7414N							
0019A					U41 THRU U43 U45 THRU U47							
0019B					U70 THRU U72							
0020	00002.000	EA		0222222-7425	NETWORK SN7425N							
0020A					U54 U57							
0021	00004.000	EA		0240000-7443	NETWORK-SN7443N							
0021A					U29 U31 U35 U37							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO-INSERTION TAPE FOR 2262080-0001				
APPROVED		DATE	APPROVED PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
								PART NUMBER		REV		
								LM2262080-5001		C		

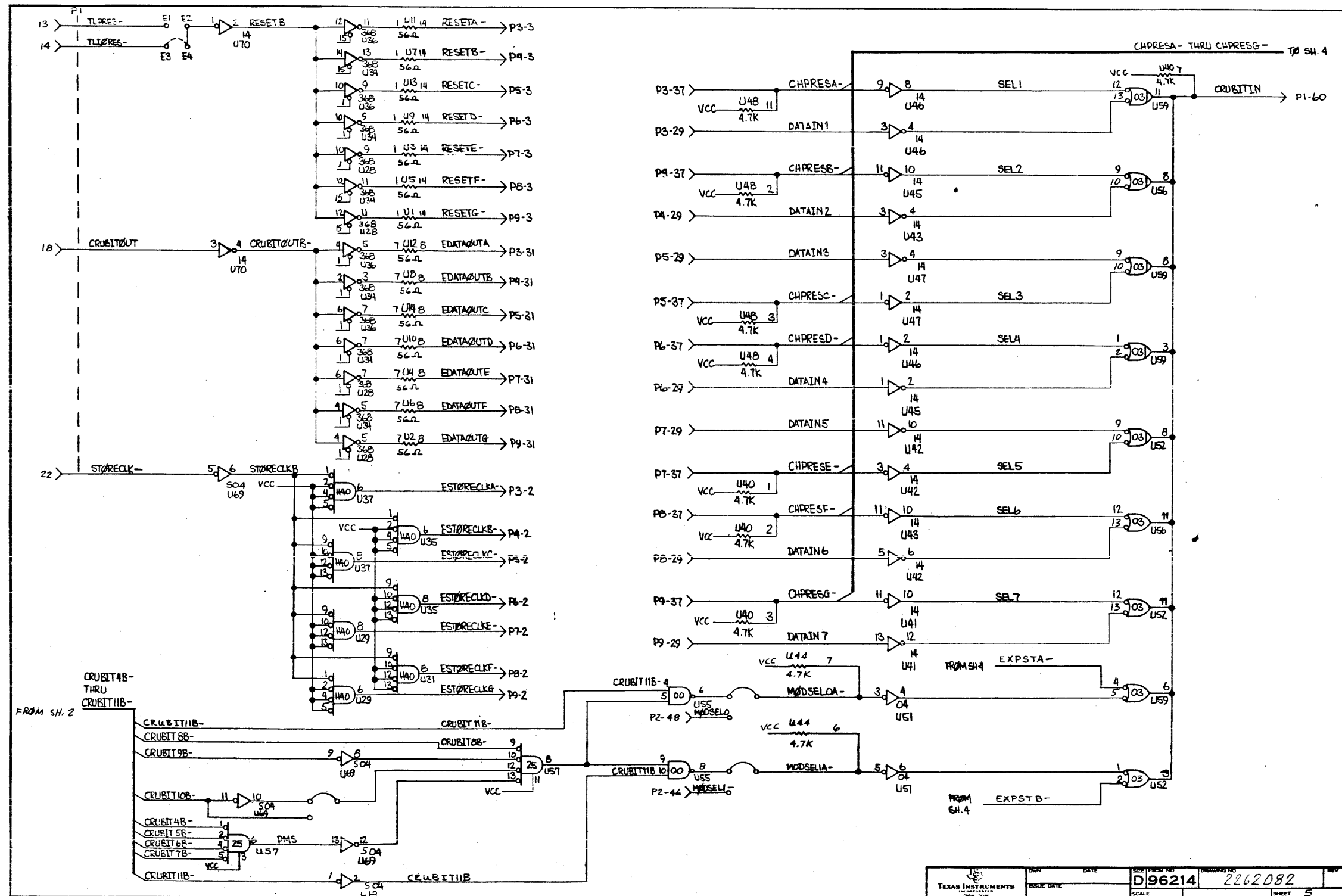
TEXAS INSTRUMENTS INCORPORATED		DATE 08/27/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM2262080-5001		REV C		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0022	00002.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N						
0022A					U65 U67							
0024	00002.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N						
0024A					U53 U58							
0025	00002.000	EA		0972669-0001	NETWORK, SN74LS163N							
0025A					U63 U64							
0026	00017.000	EA		0972556-0002	NETWORK SN74368N							
0026A					U15 THRU U26 U28 U30 U32							
0026B					U34 U36							
0027	00014.000	FA		0972007-1560	NETWORK, RESISTOR - 14 PIN, 7 ELEMENT	073138-899-3-456						
0027A					U1 THRU U14							
0028	00003.000	EA		0972141-0057	NETWORK, RES. 4.7 K OHM 2 % 14 PIN DIP	BEC - 899-1-R4.7K						
0028A					U40 U44 U48							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO-INSERTION TAPE FOR 2262080-0001				
APPROVED		DATE	APPROVED PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
								PART NUMBER		REV		
								LM2262080-5001		C		

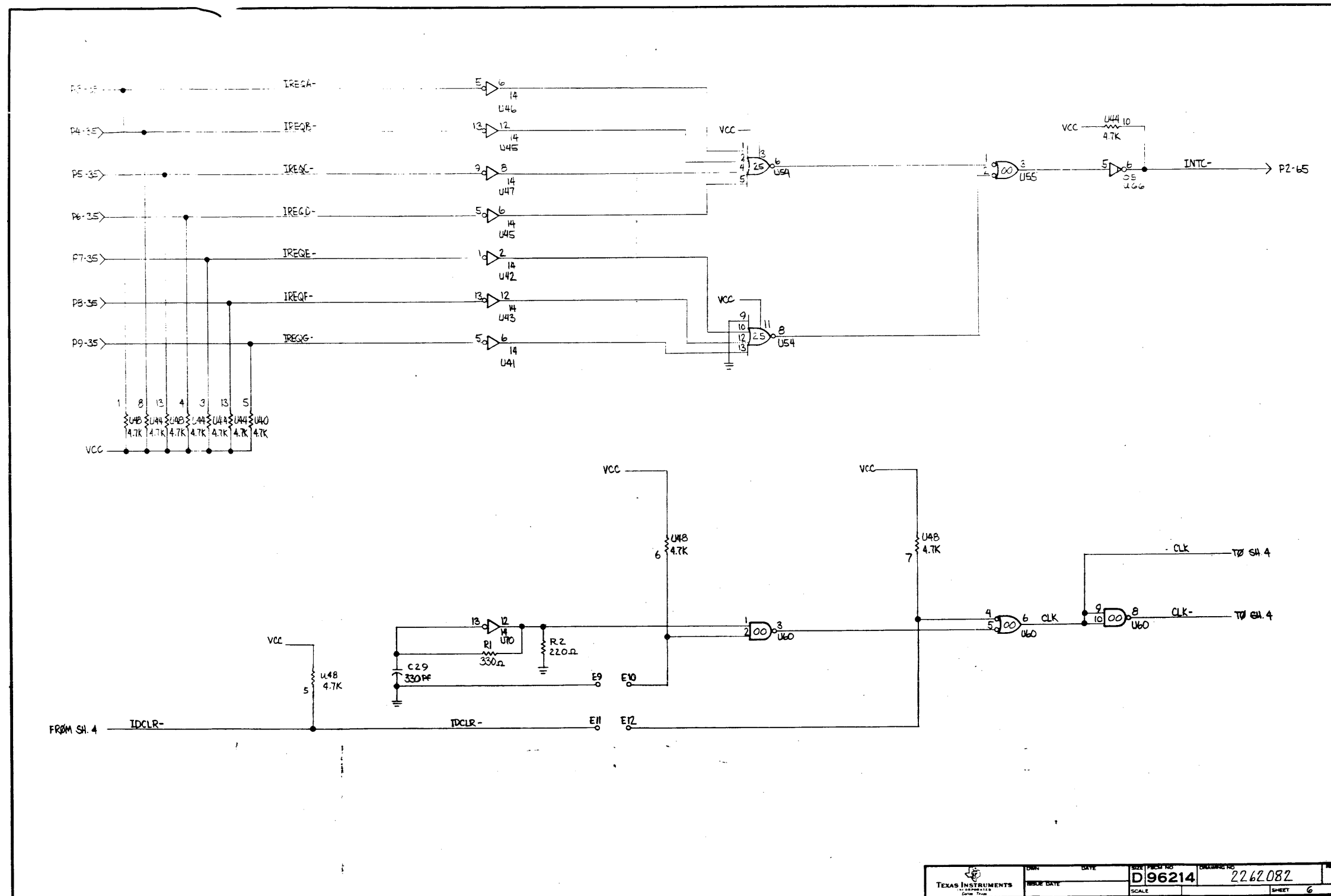












 TEXAS INSTRUMENTS <small>11000 Burnham Road Dallas, Texas 75221</small>	DATE	DESIGNER	DRAWING NO.	REV.
	ISSUE DATE		D 96214	2262082
SCALE		SHEET		6

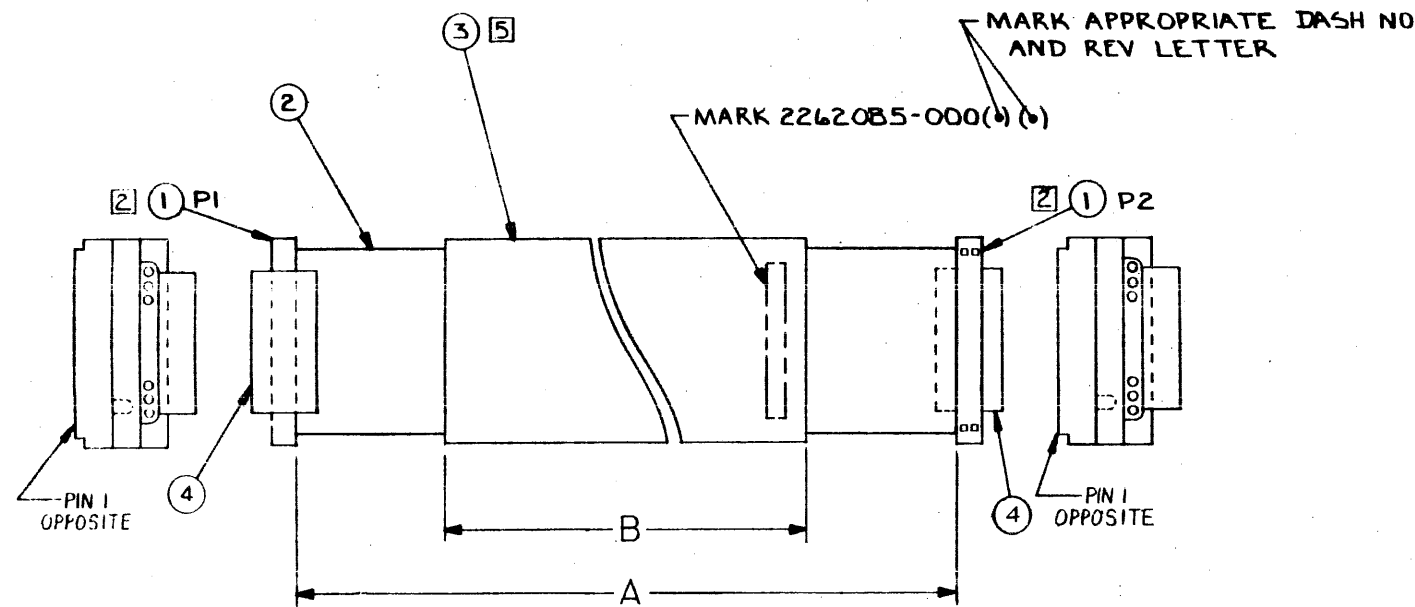
NOTES: UNLESS OTHERWISE SPECIFIED:

- 1. PIN 1 OF CONNECTOR P1 GOES TO PIN1 OF CONNECTOR P2, ETC....
- 2. CRIMP CONNECTOR TO FLAT UNTWISTED AREA OF CABLE
- 4. MATERIAL (ITEM 2) INITIAL CUT TO BE AT CENTER OF 2 INCH FLAT SECTION, OVERALL LENGTH TO BE AS SHOWN IN DIMENSIONAL TABLE. DIMENSION A IS NOMINAL AND IS FOR REFERENCE ONLY.

NOTES: CON'T

- 5. ITEM 3 TO BE APPROXIMATELY CENTERED ON ITEM 2
- 6. ON-1, ITEM 3 IS USED FOR SYMBOLIZATION ONLY.
- 7. ITEM 101 IN -0001LM CONSISTS OF BULK CABLE ASSY MATL

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN448363(0) X 8 1/2" (1) P1 P2 PICTORIAL CHANGED (2) ITEM 1 LM-1-2 PARTING WAS 396261-0015 (3) ITEM 3 LM-1 QTY WAS 11.0 (4) ADDED ITEM 4 (5) NOTE 3 DELETED (6) REVISED NOTE 4 (7) ADDED NOTE 6 (8) ZONE B-3, DIM WAS 416.00 (9) ON-2, DIM WAS 720.00 ± 2.00 IN TABLE.	9-17-79	<i>[Signature]</i>
B	CN447900(0) X 8 1/2" (1) P1 P2 P2 5001LM (2) ADDED ITEM 101 TO -0001LM (3) ADDED FLAG NOTE 7	12-3-79	<i>[Signature]</i>



2262085-5001	BULK CABLE ASSEMBLY MATL FOR -0001		
2262085-0002	CABLE ASSY, CRU BUFFER CRU EXPANSION	240.00	220.00 ± 2.00
7 2262085-0001	CABLE ASSY, CRU BUFFER CRU EXPANSION	160.00	2.00 ± 1.00
PART NO	DESCRIPTION	DIM A	DIM B

1	MARK	100-07	71	CLR. BLACK, TYPE 6
SEC. NO.	IDENT	F SPEC	NO	ADDITIONAL
	PROCESS			CLASSIFICATION
PROCESSES - FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE TI DRAWING 729467				

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
<small>UNLESS OTHERWISE SPECIFIED: * DIMENSIONS ARE IN INCHES * TOLERANCES: ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02 * INTERPRET DRAWING PER MIL-D-1000 * REMOVE ALL SHARP AND SHARP EDGES * CONCENTRICITY MACHINED DIAMETERS .010 FIM * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * PARENTHEZIAL INFO FOR REF ONLY</small>					
2262066	7506				
NEXT ASSY USED ON		APPLICATION			
HOLE TOLERANCE: .013 - .024 THRU .001 1.25 - .024 THRU .001		.025 - .050 THRU .001 .051 - .070 THRU .001 .071 - .100 THRU .001 1.001 - 2.000 THRU .001		DATE: 9-27-79 DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 1-4-77 DRAWING NO: C 96214 DRAWING NO: 2262085	

TEXAS INSTRUMENTS INCORPORATED		DATE 11/02/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2262085-0001		REV B		
REV ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00002.000	EA		C996261-0007	CONN,RECEPTACLE, 40 POSITION	000779-88379-7						
0001A					P1 P2							
0004	00002.000	EA		2210259-0008	TAB,PULL,PLASTIC LOCP,40 POS, 2.000 L	000779-88450-9						
0101	00001.000	EA		2262085-5001	BULK CABLE ASSY MATERIAL FOR -0001							
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY,CRU BUFFER/CRU EXP.13FT				
APPROV. MFG		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	7506				
								PART NUMBER LM2262085-0001				
								REV B				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/02/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2262085-5001		REV B		
REV ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0002	00013.000	FT		0996128-0007	CABLE,FLAT,20 TWISTED PR,1.950 WIDE	SSW -455-248-40						
0003	00000.167	FT		2210065-0005	ZIPPER TUBING, FLAT 2" W	007240- SEE DRAWING						
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSY MATERIAL FOR -0001				
APPROV. MFG		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM2262085-5001				
								REV B				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/02/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2262085-0002		REV B		
REV ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00002.000	EA		C996261-0007	CONN,RECEPTACLE, 40 POSITION	000779-88379-7						
0001A					P1 P2							
0002	00020.000	FT		0996128-0007	CABLE,FLAT,20 TWISTED PR,1.950 WIDE	SSW -455-248-40						
0003	00018.000	FT		2210065-0005	ZIPPER TUBING, FLAT 2" W	007240- SEE DRAWING						
0004	00002.000	EA		2210259-0008	TAB,PULL,PLASTIC LOOP,40 POS, 2.000 L	000779-88450-9						
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY,CRU BUFFER/CRU EXP.20FT				
APPROV. MFG		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM2262085-0002				
								REV B				

NOTES: CONT

1. UN-2 AND -3 ASSEMBLIES ONLY, ITEM 57 SHOULD BE PLACED WHERE ITEM 75 IS SHOWN ON SHEET 1, NOT PER VIEW F-F ON SHEET 2.

2. CUT THE 4 LEADS OF THE RECTIFIER BRIDGE, CRIP TO APPROX. .5 ± .1 INCHES, AND BEND THE LEADS AS SHOWN IN VIEW G-G.

3. REWORK FOR PROM PROGRAMMER CONSOLE PIN 944996 USING CHASSIS PIN 944999 REV. A18 (WITHOUT NOTCH) SEE VIEW E-E FOR DIMENSIONS FOR CLEARANCE NOTCH REQUIRED.

NOTES: CONT

4. ID PLATE, P/N 2262110-0001 SHOULD HAVE THE FOLLOWING PREPRINTED INFO:
-0001- PROM PROGRAMMER MODEL 990
PART NO. 944996-0001 SERIAL NO. A/R
VOLTS 115V FREQ 60Hz WATTS 34.5 W
ALL- PROM PROGRAMMER 990
OTHERS) PART NO. 944996 (-000X) SERIAL NO. A/R
VOLTS 115V FREQ 60Hz AMPS .3A WATTS 34.5 W

10. ID PLATE P/N 2262110-0003 SHOULD HAVE THE FOLLOWING PREPRINTED INFO:
PROM PROGRAMMER, MODEL 990 TBLTOP
PART NO. 944996-0001 SERIAL NO. A/R
VOLTS 115V FREQ 60Hz AMPS .3A WATTS 34.5 W

NOTES: CONT

7. MODIFY ALL 944996-0001, -0002, AND -0003, REV X THRU C PER KITS/PRINT KIT D.W.G. 740060 (LINE PARTS CALLED OUT ON THE LM OF 940060)

8. USE MODIFIED FRONT PANEL, FROM PROGRAMMER 945156 FOR SWITCH ASSY ADJUSTMENT. (MODIFIED FRONT PANEL SHALL HAVE BALL STUDS, P.N. 802235 INSTALLED, THE BALL STUD THAT ACTUATES SWITCHES OF SWITCH ASSY SHALL BE GROUNDED OFF .05 TO .06 IN AT BALL END)

INSTALL MODIFIED FRONT PANEL ON PROM PROGRAMMER CONSOLE. ADJUST BRACKET MOUNTING SWITCH ASSY (ITEM 2) TOWARD FRONT PANEL UNTIL MICRO SWITCHES ARE ACTIVATED. AN AUDIBLE CLICK INDICATES ACTUATION, OR LED LIGHT (ON) WITH LED INDICATOR TEST BOX.

NOTES:

1. INSTALL ITEM 16 AT 3.00 ± .50 INTERVALS

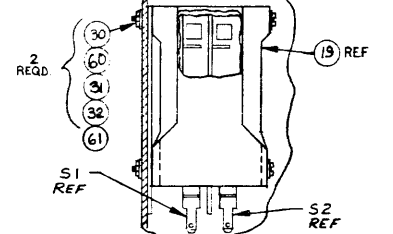
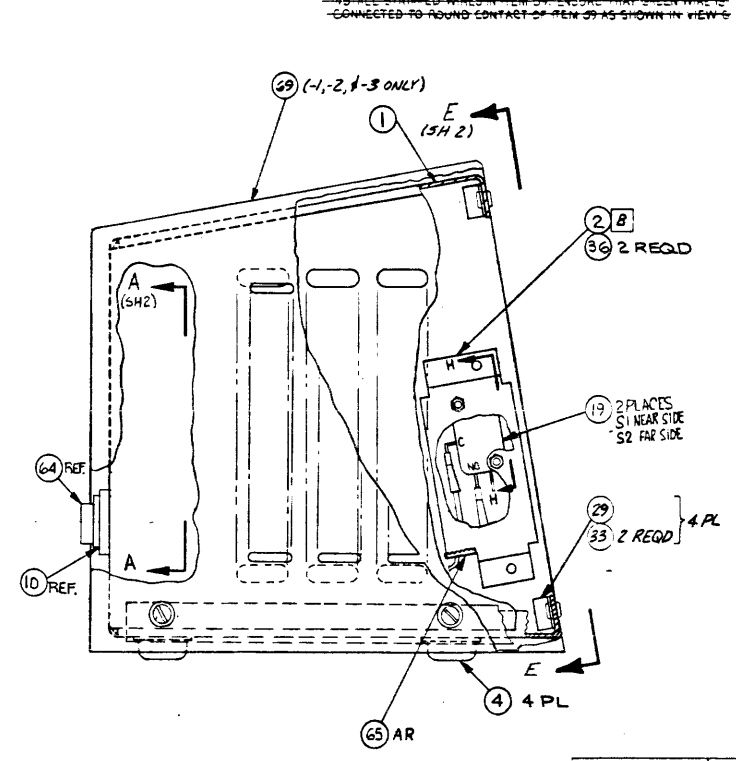
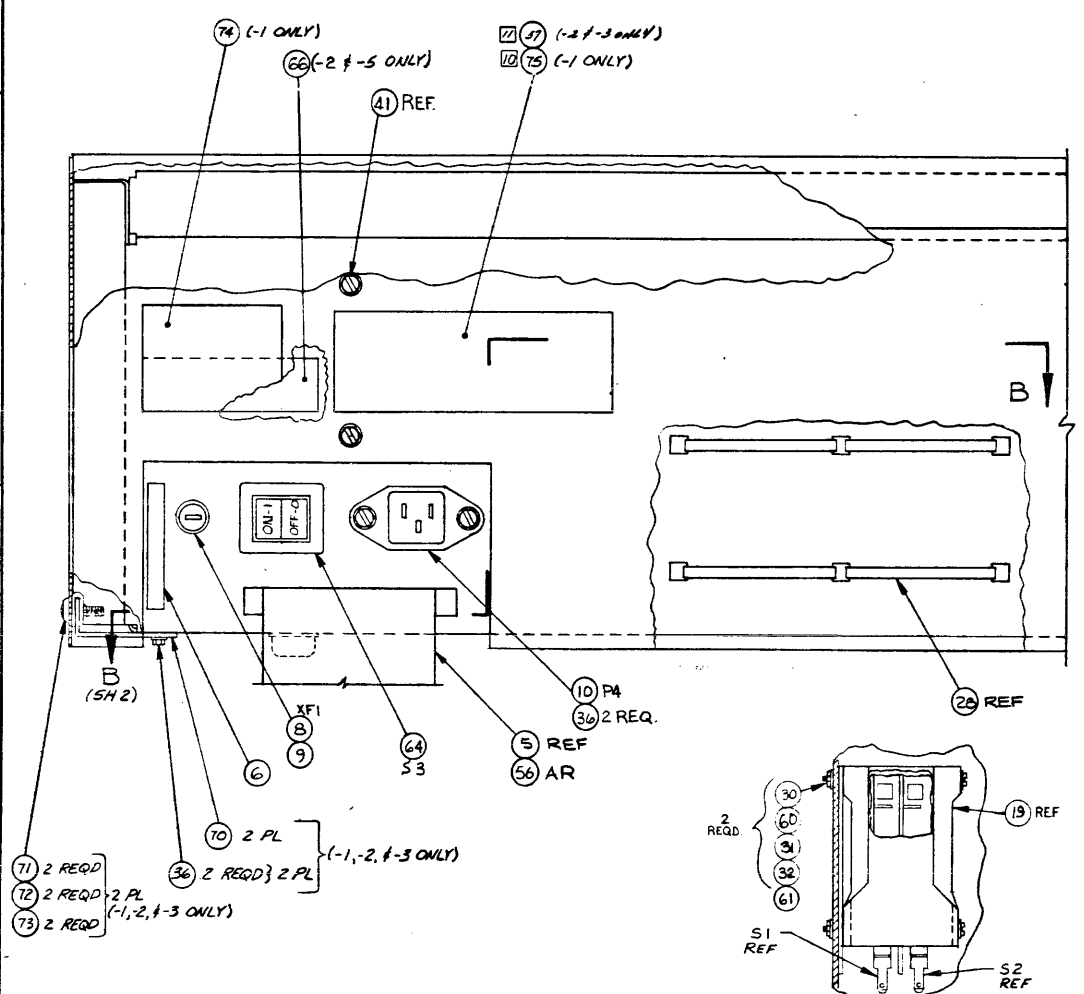
2. ITEM 5 TO BE 12.0 ± 1.0 INSIDE THE CHASSIS

3. SOLDER LEADS OF C3 AND C4 TO CRIMP LUG TERMINAL

4. DATA TO BE FILLED BY MANUFACTURING OR BY SYSTEM TEST

5. SECURE FRONT PANEL GREEN WIRE TO CHASSIS USING HARDWARE (ITEM 33) THEN SECURE GREEN WHT STRIP WIRE (ITEM 40) TO SCREW (ITEM 48) USING REMAINING HARDWARE

6. CUT FRONT PORTION OF POWER CORD FROM STRIP CORD WIRE AND WIRE INSULATION FROM THE 3-WIRE CONDUCTOR WIRE STRIP. WIRE IN ITEM 40 WIRE THAT GREEN WIRE IS CONNECTED TO ROUND CONTACT OF REM 37 AS SHOWN IN VIEW E



SECTION H-H SCALE 2/11

PROCESSES:

1. SOLDER PER F-127 METHOD I
MARK PER F-100, METHOD I
CLASS I, HEIGHT .12, COLOR BLACK

2. MARK PER F-100, METHOD I
CLASS I, HEIGHT .12, COLOR BLACK
TYPE 0

3. MARK PER F-100, METHOD II
CLASS I, HEIGHT .12, COLOR BLACK

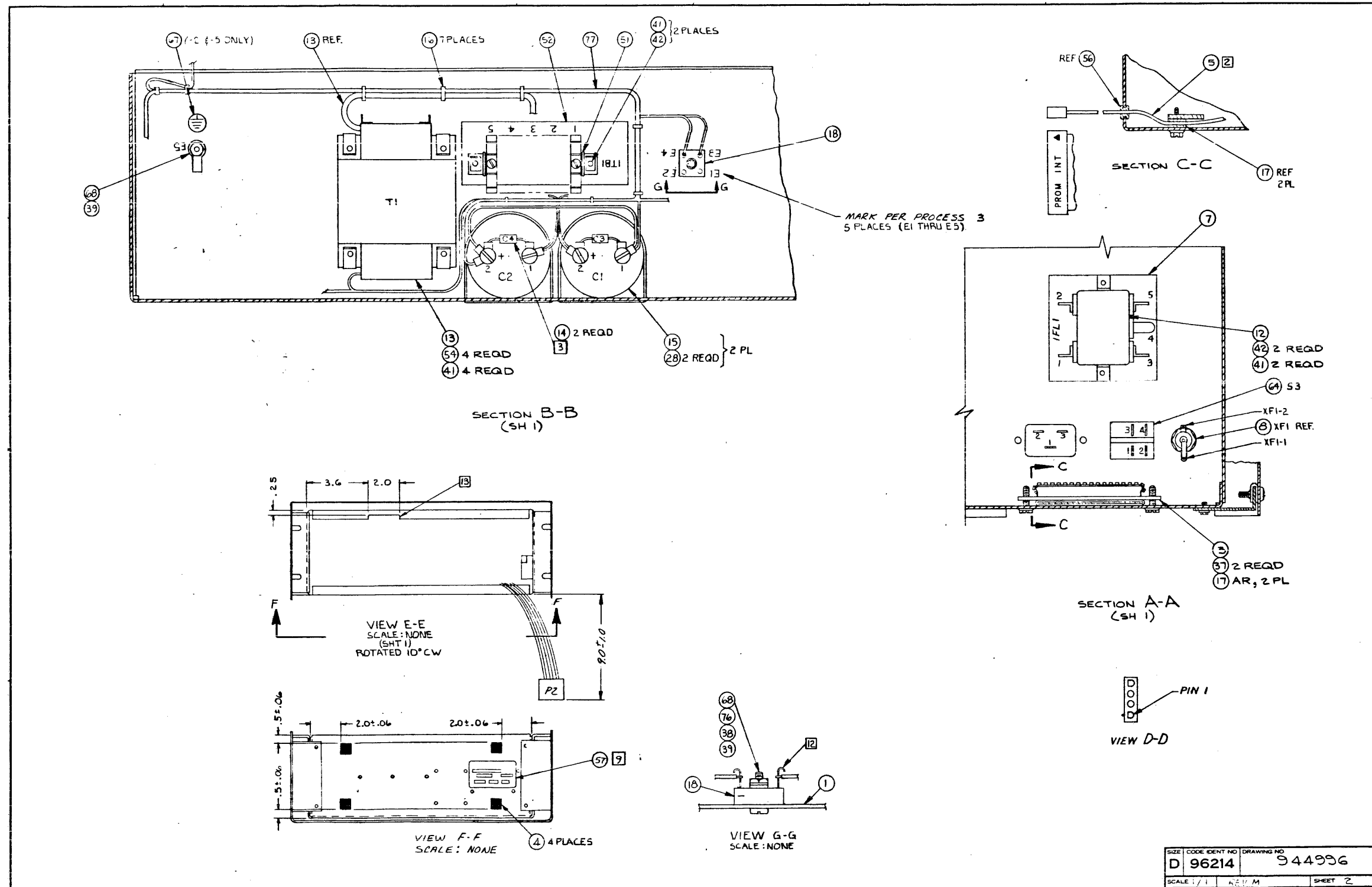
REV. NO.	DESCRIPTION	DATE	APPROVED
A	2-6-76 (1) REVISED L/M PICTORIAL PROCESSES PER EXTENSIVE ENGR CHANGES	6/21/76	Sub
B	ON 4/19/78 (1) REVISED L/M PICTORIAL PER EXTENSIVE ENGR CHANGE	7/21/78	Sub
C	CN421226 (C) Rev. 1 (1) LM ITEM 45 OF -2 WAS 538347-5099 (2) LM ITEM 46 OF -2 WAS 538347-5499 (3) LM ITEM 47 OF -2 WAS 538347-5599 (4) LM ITEM 62 OF -2 WAS 538347-5999 (5) LM ITEM 10 OF -2 WAS 88035-0005 (6) LM ITEM 11 OF -2 WAS 454990-0025 (7) ADDED ITEMS 66 & 67 LM-2 (8) DELETED VIEW C-C FROM SH 2 (A-4) (9) DELETED PLANE LINES FOR VIEW G-G FROM SH 1 (B-8) (10) DELETED NOTE 6 FROM SH 1 (D-3)	10/17/78	E.Wing
D	CN426826 (A) (1) REVISED PER EXTENSIVE ENGR CHANGES	8-30-77	J.R. Ruff
E	CN426831 (C) H. J. (1) REVISED PER EXTENSIVE ENGR CHANGES	11-1-77	J.R. Ruff
F	CN430266 (C) Rev. 1 (1) LM -0001 -0002 & -0003 LM ITEM 33 WATTS 972988-0013, DELETED ITEMS 34 & 35	4-19-78	J.R. Ruff
G	CN442562 (E) Rev. 1 (1) LM ITEM 45 OF -2 WAS 538347-5099 (2) LM ITEM 46 OF -2 WAS 538347-5499 (3) LM ITEM 47 OF -2 WAS 538347-5599 (4) LM ITEM 62 OF -2 WAS 538347-5999 (5) LM ITEM 10 OF -2 WAS 88035-0005 (6) LM ITEM 11 OF -2 WAS 454990-0025 (7) ADDED ITEMS 66 & 67 LM-2 (8) DELETED VIEW C-C FROM SH 2 (A-4) (9) DELETED PLANE LINES FOR VIEW G-G FROM SH 1 (B-8) (10) DELETED NOTE 6 FROM SH 1 (D-3)	3-21-79	J.R. Ruff
H	CN448441 (C) E. Moran (1) ADDED NOTE 6 (2) R-C-3 ADDED NOTE BLOCK 6	3-21-79	J.R. Ruff
J	CN442708 (D) E. Moran (1) EN C-7, SH 2, BALLOON NO 68 WAS NO 37 (2) ON LM -1, -2, & -3, ITEM 37 QTY WAS 3, AND ADDED ITEM 68	5-25-79	E.Wing
K	CN435766 (C) E. Moran (1) REVISED L/M PICTORIAL & PART NO. DESCRIPTION PER EXTENSIVE ENGR CHANGES	10-17-79	E.Wing
L	CN435850 (C) E. Moran (1) ADDED FLAGNOTE II	10-17-79	E.Wing
M	CN433792 (D) E. Moran (1) REVISED L/M & PICTORIAL PER EXTENSIVE ENGR CHANGES.	10-17-79	E.Wing

944996-0006	CONSOLE, PROM PROGRAMMER, RACK MOUNT, (100V)
944996-0005	CONSOLE, PROM PROGRAMMER, RACK MOUNT, (230V)
944996-0004	CONSOLE, PROM PROGRAMMER, RACK MOUNT, (115V)
944996-0003	CONSOLE, PROM PROGRAMMER, TABLE TOP (100V)
944996-0002	CONSOLE, PROM PROGRAMMER, TABLE TOP (230V)
944996-0001	CONSOLE, PROM PROGRAMMER, TABLE TOP (115V)
PART NUMBER	DESCRIPTION

REV STATUS	REV	M	M
OF SHEETS	SH	1	2
UNLESS OTHERWISE SPECIFIED			
1. REMOVE ALL BURRS AND SHARP EDGES			
2. CONCENTRICITY MACHINED DIAMETERS .010 FIR			
3. DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING			
4. IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY			
5. INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			
HOLE TOLERANCE			
.013 thru .004	.126 thru .005	.251 thru .006	
.125 thru .001	.250 thru .001	.500 thru .001	
944924 1506			
NEXT ASSY. USED ON APPLICATION			
DIMENSIONS ARE IN INCHES		TOLERANCES	
ANGLES ±1°		3 PLACE DECIMALS = .010	
2 PLACE DECIMALS = .02			
DESIGN APPROVED BY: [Signature]		DATE: 2-6-76	
DRAWN BY: [Signature]		DATE: 2/19/76	
CHECKED BY: [Signature]		DATE: 2/25/76	
DESIGNED BY: [Signature]		DATE: 3/25/76	

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
2	1				

TXI TEXAS INSTRUMENTS CORPORATION	EQUIPMENT GROUP	DALLAS TEXAS
CONSOLE, PROM PROGRAMMER		
SIZE/ CODE IDENT NO.	D 96214	DRAWING NO. 944996
SCALE	1/1	SHEET 1 OF 2



TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944996-0001		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0544999-0001	CHASSIS, PROM PROGRAMMER						
0002	0001.000	EA		0945000-0001	BRACKET, MTG. SWITCH						
0003	0001.000	EA		0545237-0001	BAR, RETAINER, CABLE						
0004	0004.000	EA		0596219-0001	BUMPER, ADHESIVE	MMM - SJ5023					
0005	0001.000	EA		0945019-0001	CABLE ASSY, PROM PROGRAMMER						
0006	0001.000	EA		0946637-0007	LABEL, PCWER						
0007	0001.000	EA		0546703-0001	LABEL, FILTER						
0008	0001.000	EA		2210402-0001	FUSEHOLDER AND NUT ONLY	SCHURT-FEU 031.1653					
0008A					XF1						
0009	0001.000	EA		0772995-0002	FUSE 3 AMP SLOW BLOW 1/4X1-1/4 IN	BUS -MDA3.0					
0009A					F1						
0010	0001.000	EA		2210581-0001	CONNECTOR, FEMALE, EUROPEAN	BALCK -SEE TI DWG					
0010A					P4						
0012	0001.000	EA		0972838-0005	FILTER, AC						
0012A					FL1						
0013	0001.000	EA		0946759-0001	TRANSFORMER, RECTIFIER, MULTITAP						
0013A					T1						
0014	0002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 100 100V	QPL - CK068X104K					
0014A					C3 C4						
0015	0002.000	EA		0972930-0046	CAP, FIXED 2800UF 75V 10%	SPR - 36DX282G075A8					
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
						CONSOLE, PROM PROGRAMMER, TABLE TOP, 115V					
APPROVING	DATE	APPROVING	DATE	RELEASED	DATE	PROJECT NO.					
						7506					
				PART NUMBER		REV					
				LM0944996-0001		M					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944996-0001		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0015A					C1 C2						
0016	0007.000	EA		0418212-0040	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	QPL - MS3367-4-9					
0017	00000.500	RL		0972361-0002	TAPE, FCAP, VINYL, SELF ACH 3/8 WIDE	NRS -V544					
0018	0001.000	EA		0572127-0001	RECTIFIER, BRIDGE 2 AMP EPOXY	VAR -VS148					
0018A					CR1						
0019	0002.000	EA		0996451-0001	SWITCH 15 AMP MINIATURE, SNAP-ACTION	001963-F3440AX					
0019A					S1 S2						
0028	0004.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST45					
0030	0002.000	EA		0972684-0035	SCREW, 4-40 X 1-1/8 THD FRM HEX WASHER HD						
0031	0002.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	GPL - MS35333-70					
0032	0002.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS -35649-244					
0036	0008.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD						
0038	0001.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	GPL - MS35333-71					
0039	0002.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6					
0041	0010.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLCT HX MSR HD						
0042	0004.000	EA		0972802-0001	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C13209-6Z-67					
0043	REF	EA		0946762-9901	WIRE LIST, PROM PROGRAMMER CONSOLE, 115V						
0044	REF	EA		0946763-9901	WIRING DIAGRAM PROM PROGRAMMER						
0051	0001.000	EA		0975270-0005	TERMINAL BLCK 5 POSITION PUSH-ON TERMS.	1T81					
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
						CONSOLE, PROM PROGRAMMER, TABLE TOP, 115V					
APPROVING	DATE	APPROVING	DATE	RELEASED	DATE	PROJECT NO.					
				PART NUMBER		REV					
				LM0944996-0001		M					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0944996-0001		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0052	0001.000	EA		0946704-0001	LABEL, TERMINAL BOARD						
0054	0004.000	EA		0972802-0005	NUT, U-TYPE 6-20 X .094						
0055	REF	EA		0945138-9901	TEST PROCEDURE, PROM PROGRAMMING CONSOLE						
0056	AR	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085						
0057	0001.000	EA		2262110-0001	PLATE, IDENTIFICATION						
0060	0002.000	EA		0940049-0001	PLATE, INSULATOR						
0061	0001.000	EA		0996402-0001	ACTUATOR, SWITCH	091929-JV-91					
0063	00000.200	FT		0417177-0186	SLEEVE, PVC .250 DIA BLACK .025 WALL	QPL -MIL-1-23053/2					
0064	0001.000	EA		2263910-0001	SWITCH, ROCKER, NON-ILLUMINATED, DPST						
0064A					S3						
0065	AR	FT		0087346-0001	GROMMET-CATERPILLAR METAL THK.015 TO.052						
0068	0002.000	EA		0972988-0030	SCREW 6-32 X .500 PAN HEAD CRES						
0069	0001.000	EA		0944997-0001	COVER, TABLE TOP, PROM PROGRAMMER						
0070	0002.000	EA		0944998-0001	BRACKET, SUPPORT, TABLE TOP COVER						
0071	0004.000	EA		0972837-0011	SCREW, OVAL HEAD, 8-32 X 1/2						
0072	0004.000	EA		0972836-0002	WASHER, FINISHING, #8						
0073	0004.000	EA		0972802-0008	NUT, U-TYPE, 8-32 X .062						
0074	0001.000	EA		0944475-0001	LABEL, UL WARNING FOR FUSE REPLACEMENT						
0075	0001.000	EA		2262110-0003	PLATE, IDENTIFICATION, EDP EQUIPMENT						
0076	0001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L					
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
						CONSOLE, PROM PROGRAMMER, TABLE TOP, 115V					
APPROVING	DATE	APPROVING	DATE	RELEASED	DATE	PROJECT NO.					
				PART NUMBER		REV					
				LM0944996-0001		M					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0944996-0001		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0077	0001.000	EA		2262157-0001	CABLE ASSY, PROM PROG CONSOLE, 100V/115V						
0078	REF	EA		2262160-9901	WIRING LIST, 100V/115V, PROM, PROG CONSOLE						
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
						CONSOLE, PROM PROGRAMMER, TABLE TOP, 115V					
APPROVING	DATE	APPROVING	DATE	RELEASED	DATE	PROJECT NO.					
				PART NUMBER		REV					
				LM0944996-0001		M					

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM944996-0002		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0944999-0001	CHASSIS,PROP PROGRAMMER				
0002	0001.000	EA		0945000-0001	BRACKET,MTG,SWITCH				
0003	0001.000	EA		0945237-0001	BAR,RETAINER,CABLE				
0004	0004.000	EA		0946219-0001	BUMPER,ADHESIVE	MMM - SJ5023			
0005	0001.000	EA		0945019-0001	CABLE ASSY, PROM PROGRAMMER				
0006	0001.000	EA		0946637-0005	LABEL,POWER				
0007	0001.000	EA		0946703-0001	LABEL, FILTER				
0008	0001.000	EA		2210402-0001	FUSEHOLDER AND NUT CNLY	SCHURT-FEU 031.1653			
0008A					XF1				
0009	0001.000	EA		0416434-0153	FUSE 1.5 A 250V 3AG	LIT - 31201.5			
0009A					F1				
0010	0001.000	EA		2210581-0001	CONNECTOR,FEMALE,EUROPEAN	BALCK -SEE TI DWG			
0010A					P4				
0012	0001.000	EA		0972838-0005	FILTER,AC				
0012A					FL1				
0013	0001.000	EA		0946759-0001	TRANSFORMER, RECTIFIER, MULTITAP				
0013A					T1				
0014	0002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 104 100V	QPL - CK06BX104K			
0014A					C3 C4				
0015	0002.000	EA		0972930-0046	CAP,FIXED 2800UF 75V 104	SPR - 36DX282G075A8			
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE,PROM PROGRAMMER, TABLE TOP, 230V									
APD MFG DATE APD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM944996-0002 REV M									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM944996-0002		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0015A					C1 C2				
0016	0007.000	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL - MS3367-4-9			
0017	0000.500	RL		0972361-0002	TAPE, FOAM, VINYL, SELF ADM 3/8 WIDE	NRS -V544			
0018	0001.000	EA		0972127-0001	RECTIFIER, BRIDGE 2 AMP EPOXY	VAR -VS148			
0018A					CR1				
0019	0002.000	EA		0996451-0001	SWITCH 15 AMP MINIATURE,SNAP-ACTION	001963-F3440AX			
0019A					S1 S2				
0028	0004.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST45			
0030	0002.000	EA		0972684-0035	SCREW,4-40 X 1-1/8 THR FRM HEX WASHER HD				
0031	0002.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	CPL - MS35333-70			
0032	0002.000	EA		0411115-0044	NUT,4-40 HEXAGON CRES STEEL	MS -35649-244			
0036	0000.000	EA		0972684-0034	SCREW,6-32 X 1/4 HEX WASHER HEAD				
0038	0001.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	CPL - MS35333-71			
0039	0002.000	EA		0416453-0022	NUT,PLAIN 6-32 UNC-28 HEX CRES,SPALL	QPL - MS671C6			
0041	0010.000	EA		0972683-0007	SCREW, 6-20X 5/8 TPD FRM, SLOT HX WSR HD				
0042	0004.000	EA		0972802-0001	FASTENER,6-20X.34LG,SPEED NUT,STL	078553-C13209-02-07			
0043	REF	EA		0945249-9901	WIRE LIST,PROM PROGRAMMER CONSOLE,230V				
0044	REF	EA		0946763-9901	WIRING DIAGRAM PROM PROGRAMMER				
0051	0001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS				
0051A					17B1				
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE,PROM PROGRAMMER, TABLE TOP, 230V									
APD MFG DATE APD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM944996-0002 REV M									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM944996-0002		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0052	0001.000	EA		0946704-0001	LABEL,TERMINAL BOARD				
0054	0004.000	EA		0972802-0009	NUT, U-TYPE 6-20 X .094				
0055	REF	EA		0945138-9901	TEST PROCEDURE, PROM PROGRAMMING CONSOLE				
0056	AR	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085				
0057	0001.000	EA		2262110-0001	PLATE,IDENTIFICATION				
0060	0002.000	EA		0940049-0001	PLATE,INSULATOR				
0061	0001.000	EA		0996402-0001	ACTUATOR,SWITCH	091929-JV-91			
0063	0000.200	FT		0417177-0180	SLEEVE,PVC .250 DIA BLACK .025 WALL	QPL -MIL-1-23053/2			
0064	0001.000	EA		2263910-0001	SWITCH,ROCKER,NON-ILLUMINATED,DPST				
0064A					S3				
0065	AR	FT		0087346-0001	GROMMET-CATERPILLAR METAL THK.015 TO.052				
0066	0001.000	EA		0936478-0028	MARKER,CABLE				
0067	0001.000	EA		0945092-0001	LABEL,GROUND				
0068	0002.000	EA		0972988-0030	SCREW 6-32 X .500 PAN HEAD CRES				
0069	0001.000	EA		0944997-0001	COVER, TABLE TOP, PROM PROGRAMMER				
0070	0002.000	EA		0944998-0001	BRACKET, SUPPORT, TABLE TOP COVER				
0071	0004.000	EA		0972637-0011	SCREW,OVAL HEAD,8-32 X 1/2				
0072	0004.000	EA		0972836-0002	WASHER,FINISHING, #8				
0073	0004.000	EA		0972802-0008	NUT,U-TYPE, 8-32 X .062				
0076	0001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L			
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE,PROM PROGRAMMER, TABLE TOP, 230V									
APD MFG DATE APD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM944996-0002 REV M									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM944996-0002		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0077	0001.000	EA		2262157-0002	CABLE ASSY,PROM PROG CONSOLE,230V				
0078	REF	EA		2262161-9901	WIRING LIST,230V PROM,PROG CONSOLE				
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE,PROM PROGRAMMER, TABLE TOP, 230V									
APD MFG DATE APD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM944996-0002 REV M									

TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944996-0003		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0944999-0001	CHASSIS,PRCP PROGRAMMER						
0002	0001.000	EA		0945000-0001	BRACKET,MTG,SWITCH						
0003	0001.000	EA		0945237-0001	BAR,RETAINER,CABLE						
0004	0004.000	EA		0946219-0001	BUMPER,ADHESIVE	MMM - SJ5023					
0005	0001.000	EA		0945019-0001	CABLE ASSY, PROM PROGRAMMER						
0006	0001.000	EA		0946637-0008	LABEL,POWER						
0007	0001.000	EA		0946703-0001	LABEL, FILTER						
0008	0001.000	EA		2210402-0001	FUSEHOLDER AND NUT ONLY	SCHURT-FEU 031.1653					
0008A					XF1						
0009	0001.000	EA		0772995-0002	FUSE 3 AMP SLOW BLOW 1/4X1-1/4 IN	BUS -MDA3.0					
0009A					F1						
0010	0001.000	EA		2210581-0001	CONNECTOR,FEMALE,EUROPEAN	BALCK -SEE TI DWG					
0010A					P4						
0012	0001.000	EA		0972838-0005	FILTER,AC						
0012A					FL1						
0013	0001.000	EA		0946759-0001	TRANSFORMER, RECTIFIER, MULTITAP						
0013A					T1						
0014	0002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 104 100V	QPL - CK068X104K					
0014A					C3 C4						
0015	0002.000	EA		0972930-0046	CAP,FIXED 2800UF 75V 104	SPR - 360X282G075AB					
DRAFTSMAN	DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CONSOLE,PROM PROGRAMMER, TABLE TOP,100V					
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
								PART NUMBER LM0944996-0003		REV M	

TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944996-0003		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0015A					C1 C2						
0016	0007.000	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL - MS3367-4-9					
0017	0000.500	RL		0972361-0002	TAPE, FOAM, VINYL, SELF ADH 3/8 WIDE	NRS -V544					
0018	0001.000	EA		0972127-0001	RECTIFIER, BRIDGE 2 AMP EPOXY	VAR -VS148					
0018A					CRI						
0019	0002.000	EA		0996451-0001	SWITCH 15 AMP MINIATURE,SNAP-ACTION	001963-F3440AX					
0019A					S1 S2						
0028	0004.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST4S					
0030	0002.000	EA		0972684-0035	SCREW, 4-40 X 1-1/8 THD FRM HEX WASHER HD						
0031	0002.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - MS35333-70					
0032	0002.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS -35649-244					
0036	0008.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD						
0038	0001.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0039	0002.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6					
0041	0001.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLC T HX WSR HD						
0042	0004.000	EA		0972802-0001	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C13209-62-67					
0043	REF	EA		0946678-9901	WIRE LIST, PROM PROGRAMMER CONSOLE, 100V						
0044	REF	EA		0946763-9901	WIRING DIAGRAM PROM PROGRAMMER						
0051	0001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS	IT81					
DRAFTSMAN	DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CONSOLE,PROM PROGRAMMER, TABLE TOP,100V					
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
								PART NUMBER LM0944996-0003		REV M	

TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0944996-0003		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0052	0001.000	EA		0946704-0001	LABEL, TERMINAL BOARD						
0054	0004.000	EA		0972802-0009	NUT, U-TYPE 6-20 X .094						
0055	REF	EA		0945138-9901	TEST PROCEDURE, PRCP PROGRAMMING CONSOLE						
0056	AR	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK.052 TC.085						
0057	0001.000	EA		2262110-0001	PLATE, IDENTIFICATION						
0060	0002.000	EA		0940049-0001	PLATE, INSULATOR						
0061	0001.000	EA		0996402-0001	ACTUATOR, SWITCH	091929-JV-91					
0063	0000.200	FT		0417177-0180	SLEEVE, PVC .250 DIA BLACK .025 WALL	QPL -MIL-1-23053/2					
0064	0001.000	EA		2263910-0001	SWITCH,ROCKER, NON-ILLUMINATED, DPST						
0064A					S3						
0065	AR	FT		0087346-0001	GROMMET-CATERPILLAR METAL THK.015 TO.052						
0068	0002.000	EA		0972988-0030	SCREW 6-32 X .500 PAN HEAD CRES						
0069	0001.000	EA		0944997-0001	COVER, TABLE TOP, PROM PROGRAMMER						
0070	0002.000	EA		0944998-0001	BRACKET, SUPPORT, TABLE TOP COVER						
0071	0004.000	EA		0972837-0011	SCREW, OVAL HEAD, 8-32 X 1/2						
0072	0004.000	EA		0972836-0002	WASHER, FINISHING, #8						
0073	0004.000	EA		0972802-0008	NUT, U-TYPE, 8-32 X .062						
0076	0001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L					
0077	0001.000	EA		2262157-0001	CABLE ASSY, PROM PRG CONSOLE, 100V/115V						
0078	REF	EA		2262160-9901	WIRING LIST, 100V/115V, PROM, PRG CONSOLE						
DRAFTSMAN	DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CONSOLE,PROM PROGRAMMER, TABLE TOP,100V					
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
								PART NUMBER LM0944996-0003		REV M	

TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944996-0004		REV M	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0944999-0001	CHASSIS, PROM PROGRAMMER						
0002	0001.000	EA		0945000-0001	BRACKET, MTG, SWITCH						
0003	0001.000	EA		0945237-0001	BAR, RETAINER, CABLE						
0004	0004.000	EA		0996219-0001	BUMPER, ADHESIVE	MMM - SJ5023					
0005	0001.000	EA		0945019-0001	CABLE ASSY, PROM PROGRAMMER						
0006	0001.000	EA		0946637-0007	LABEL, POWER						
0007	0001.000	EA		0946703-0001	LABEL, FILTER						
0008	0001.000	EA		2210402-0001	FUSEHOLDER AND NUT ONLY	SCHURT-FEU 031.1653					
0008A					XF1						
0009	0001.000	EA		0772995-0002	FUSE 3 AMP SLOW BLOW 1/4X1-1/4 IN	BUS -MDA3.0					
0009A					F1						
0010	0001.000	EA		2210581-0001	CONNECTOR, FEMALE, EUROPEAN	BALCK -SEE TI DWG					
0010A					P4						
0012	0001.000	EA		0972838-0005	FILTER, AC						
0012A					FL1						
0013	0001.000	EA		0946759-0001	TRANSFORMER, RECTIFIER, MULTITAP						
0013A					T1						
0014	0002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 104 100V	QPL - CK068X104K					
0014A					C3 C4						
0015	0002.000	EA		0972930-0046	CAP, FIXED 2800UF 75V 104	SPR - 360X282G075AB					
DRAFTSMAN	DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CONSOLE,PROM PROGRAMMER, RACKMOUNT, 115V					
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
								PART NUMBER LM0944996-0004		REV M	

TEXAS INSTRUMENTS INCORPORATED DATE 11/07/79 LIST OF MATERIAL PAGE 2 of PART NUMBER LM0944996-0004 REV M

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0015A					C1 C2	
0016	00007.000	EA		0418212-0040	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	QPL - MS3367-4-9
0017	00000.500	RL		0972361-0002	TAPE, FOAM, VINYL, SELF ADH 3/8 WIDE	NRS -V544
0018	00001.000	EA		0972127-0001	RECTIFIER, BRIDGE 2 AMP EPOXY	VAR -V5148
0018A					CR1	
0019	00002.000	EA		0996451-0001	SWITCH 15 AMP MINIATURE, SNAP-ACTION	001963-F3440AX
0019A					S1 S2	
0028	00004.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST45
0030	00002.000	EA		0972684-0035	SCREW, 4-40 X 1-1/8 THD FRM HEX WASHER HD	
0031	00002.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - MS35333-70
0032	00002.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS -35649-244
0036	00004.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD	
0038	00001.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71
0039	00002.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6
0041	00010.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HX WSR HD	
0042	00004.000	EA		0972802-0001	FASTENER, 6-20X, 3/4 LG, SPEED NUT, STL	078553-C13209-62-67
0043	REF	EA		0946762-9901	WIRE LIST, PROM PROGRAMMER CONSOLE, 115V	
0044	REF	EA		0946763-9901	WIRING DIAGRAM PROM PROGRAMMER	
0051	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS.	
0051A					1T81	

DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE, PROM PROGRAMMER, RACKMOUNT, 115V
 APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0944996-0004 REV M

TEXAS INSTRUMENTS INCORPORATED DATE 11/07/79 LIST OF MATERIAL PAGE 3 of PART NUMBER LM0944996-0004 REV M

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0052	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD	
0054	00004.000	EA		0972802-0009	NUT, U-TYPE 6-20 X .094	
0055	REF	EA		0945138-9901	TEST PROCEDURE, PROM PROGRAMMING CONSOLE	
0056	AR	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085	
0057	00001.000	EA		2262110-0001	PLATE, IDENTIFICATICA	
0060	00002.000	EA		0940049-0001	PLATE, INSULATOR	
0061	00001.000	EA		0996402-0001	ACTUATOR, SWITCH	091929-JV-91
0063	00000.200	FT		0417177-0180	SLEEVE, PVC .250 DIA BLACK .025 WALL	QPL -MIL-1-23053/2
0064	00001.000	EA		2263910-0001	SWITCH, ROCKER, NON-ILLUMINATED, DPST	
0064A					S3	
0065	AR	FT		0087346-0001	GROMMET-CATERPILLAR METAL THK.015 TO.052	
0068	00002.000	EA		0972988-0030	SCREW 6-32 X .500 PAN HEAD CRES	
0076	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L
0077	00001.000	EA		2262157-0001	CABLE ASSY, PROM PROG CONSOLE, 100V/115V	
0078	REF	EA		2262160-9901	WIRING LIST, 100V/115V, PROM, PROG CONSOLE	

DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE, PROM PROGRAMMER, RACKMOUNT, 115V
 APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0944996-0004 REV M

TEXAS INSTRUMENTS INCORPORATED DATE 11/07/79 LIST OF MATERIAL PAGE 1 of PART NUMBER LM0944996-0005 REV M

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		0544999-0001	CHASSIS, PROM PROGRAMMER	
0002	00001.000	EA		0945000-0001	BRACKET, RTG, SWITCH	
0003	00001.000	EA		0945237-0001	BAR, RETAINER, CABLE	
0004	00004.000	EA		0996219-0001	BUMPER, ADHESIVE	MMH - SJ5023
0005	00001.000	EA		0945019-0001	CABLE ASSY, PROM PROGRAMMER	
0006	00001.000	EA		0946637-0009	LABEL, POWER	
0007	00001.000	EA		0946703-0001	LABEL, FILTER	
0008	00001.000	EA		2210402-0001	FUSEHOLDER AND NUT ONLY	SCHURT-FEU 031.1653
0008A					XF1	
0009	00001.000	EA		0416434-0153	FUSE 1.5 A 250V 3AG	LIT - 31201.5
0009A					F1	
0010	00001.000	EA		2210581-0001	CONNECTOR, FEMALE, EUROPEAN	BALCK -SEE TI DWG
0010A					P4	
0012	00001.000	EA		0972838-0005	FILTER, AC	
0012A					FL1	
0013	00001.000	EA		0946759-0001	TRANSFORMER, RECTIFIER, MULTITAP	
0013A					T1	
0014	00002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	QPL - CK068X104K
0014A					C3 C4	
0015	00002.000	EA		0972930-0046	CAP, FIXED 2800UF 75V 10%	SPR - 360X282G075A8

DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE, PROM PROGRAMMER, RACKMOUNT, 230V
 APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0944996-0005 REV M

TEXAS INSTRUMENTS INCORPORATED DATE 11/07/79 LIST OF MATERIAL PAGE 2 of PART NUMBER LM0944996-0005 REV M

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0015A					C1 C2	
0016	00007.000	EA		0418212-0040	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	QPL - MS3367-4-9
0017	00000.500	RL		0972361-0002	TAPE, FOAM, VINYL, SELF ADH 3/8 WIDE	NRS -V544
0018	00001.000	EA		0972127-0001	RECTIFIER, BRIDGE 2 AMP EPOXY	VAR -V5148
0018A					CR1	
0019	00002.000	EA		0996451-0001	SWITCH 15 AMP MINIATURE, SNAP-ACTION	001963-F3440AX
0019A					S1 S2	
0028	00004.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST45
0030	00002.000	EA		0972684-0035	SCREW, 4-40 X 1-1/8 THD FRM HEX WASHER HD	
0031	00002.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - MS35333-70
0032	00002.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS -35649-244
0036	00004.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD	
0038	00001.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71
0039	00002.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6
0041	00010.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HX WSR HD	
0042	00004.000	EA		0972802-0001	FASTENER, 6-20X, 3/4 LG, SPEED NUT, STL	078553-C13209-62-67
0043	REF	EA		0945249-9901	WIRE LIST, PROM PROGRAMMER CONSOLE, 230V	
0044	REF	EA		0946763-9901	WIRING DIAGRAM PROM PROGRAMMER	
0051	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS.	
0051A					1T81	

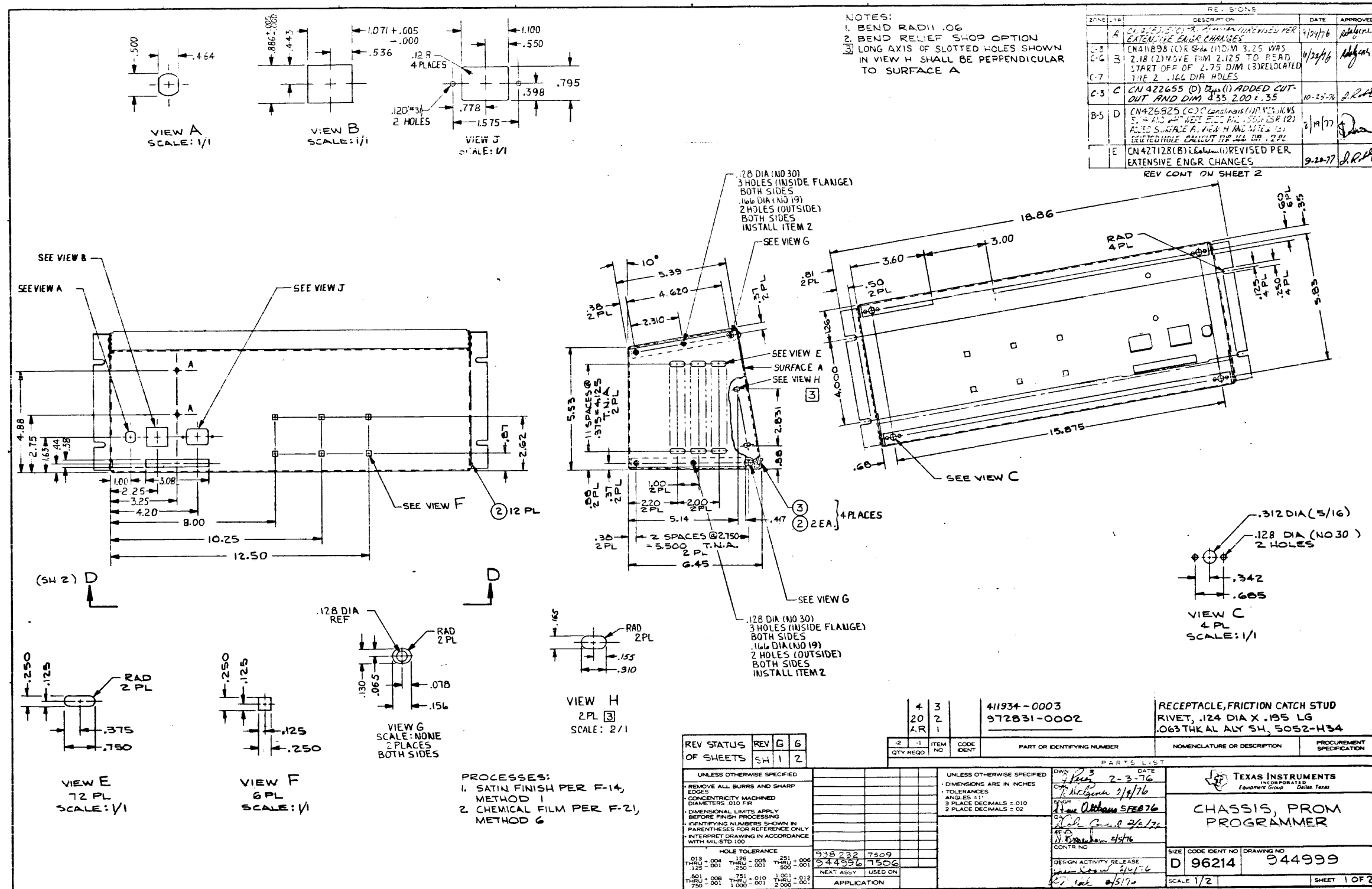
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE, PROM PROGRAMMER, RACKMOUNT, 230V
 APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0944996-0005 REV M

TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LMD944996-0005		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0052	0001.000	EA		0946704-0001	LABEL, TERMINAL BOARD						
0054	00004.000	EA		0972802-0009	NUT, U-TYPE 6-20 X .094						
0055	REF	EA		0945138-9901	TEST PROCEDURE, PROM PROGRAMMING CONSOLE						
0056	AR	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085						
0057	00001.000	EA		2262110-0001	PLATE, IDENTIFICATION						
0060	00002.000	EA		0940049-0001	PLATE, INSULATOR						
0061	00001.000	EA		0996402-0001	ACTUATOR, SWITCH	091929-JV-91					
0063	00000.200	FT		0417177-0180	SLEEVE, PVC .250 DIA BLACK .025 WALL	QPL -MIL-1-23053/2					
0064	00001.000	EA		2263910-0001	SWITCH, ROCKER, NON-ILLUMINATED, DPST						
0064A					S3						
0065	AR	FT		0087346-0001	GROMMET-CATERPILLAR METAL THK.015 TO.052						
0066	00001.000	EA		0936478-0028	MARKER, CABLE						
0067	00001.000	EA		0945092-0001	LABEL, GROUND						
0068	00002.000	EA		0972988-0030	SCREW 6-32 X .500 PAN HEAD CRES						
0076	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L					
0077	00001.000	EA		2262157-0002	CABLE ASSY, PROM PRG CONSOLE, 230V						
0078	REF	EA		2262161-9901	WIRING LIST, 230V PROM, PRG CONSOLE						
DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CONSOLE, PROM PROGRAMMER, RACKMOUNT, 230V					
APPROVING	DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LMD944996-0005					

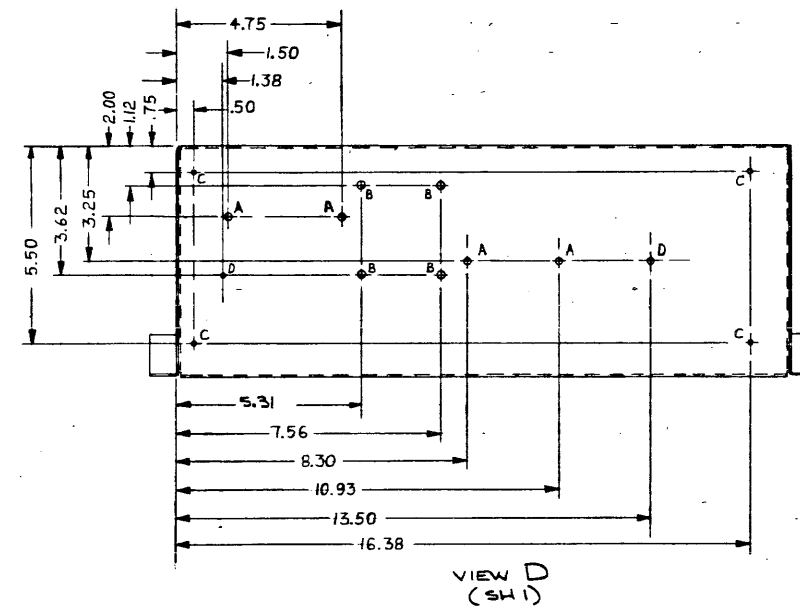
TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LMD944996-0006		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0944999-0001	CHASSIS, PROM PROGRAMMER						
0002	00001.000	EA		0945000-0001	BRACKET, MOUNTING, SWITCH						
0003	00001.000	EA		0945237-0001	BAR, RETAINER, CABLE						
0004	00004.000	EA		0996219-0001	BUMPER, ADHESIVE	MM - SJ5023					
0005	00001.000	EA		0945019-0001	CABLE ASSY, PROM PROGRAMMER						
0006	00001.000	EA		0946637-0008	LABEL, POWER						
0007	00001.000	EA		0946703-0001	LABEL, FILTER						
0008	00001.000	EA		2210402-0001	FUSEHOLDER AND NUT ONLY	SCHURT-FEU 031.1653					
0008A					XF1						
0009	00001.000	EA		0772995-0002	FUSE 3 AMP SLOW BLOW 1/4X1-1/4 IN	BUS -MDA3.0					
0009A					F1						
0010	00001.000	EA		2210581-0001	CONNECTOR, FEMALE, EUROPEAN	BALCK -SEE TI DWG					
0010A					P4						
0012	00001.000	EA		0972838-0005	FILTER, AC						
0012A					FL1						
0013	00001.000	EA		0946759-0001	TRANSFORMER, RECTIFIER, MULTITAP						
0013A					T1						
0014	00002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 103 100V	QPL - CK068X104K					
0014A					C3 C4						
0015	00002.000	EA		0972930-0046	CAP, FIXED 2800UF 75V 10%	SPR - 36DX282G075AB					
DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CONSOLE, PROM PROGRAMMER, RACKMOUNT, 100V					
APPROVING	DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LMD944996-0006					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LMD944996-0006		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0015A					C1 C2						
0016	00007.000	EA		0418212-0040	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	QPL - MS3367-4-9					
0017	00000.500	RL		0972361-0002	TAPE, FOAM, VINYL, SELF ADH 3/8 WIDE	NRS -V544					
0018	00001.000	EA		0972127-0001	RECTIFIER, BRIDGE 2 AMP EPCVY	VAR -V5148					
0018A					CR1						
0019	00002.000	EA		0996451-0001	SWITCH 15 AMP MINIATURE, SNAP-ACTION	001963-F3440AX					
0019A					S1 S2						
0028	00004.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST45					
0030	00002.000	EA		0972684-0035	SCREW, 4-40 X 1-1/8 THR FRM HEX WASHER HD						
0031	00002.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - MS35333-70					
0032	00002.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS -35649-244					
0036	00004.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD						
0038	00001.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0039	00002.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-28 HEX CRES, SMALL	QPL - MAS671C6					
0041	00010.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLGT HX MSR HD						
0042	00004.000	EA		0972802-0001	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C13209-6Z-67					
0043	REF	EA		0946678-9901	WIRE LIST, PROM PROGRAMMER CONSOLE, 100V						
0044	REF	EA		0946763-9901	WIRING DIAGRAM PROM PROGRAMMER						
0051	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS.						
0051A					1T81						
DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CONSOLE, PROM PROGRAMMER, RACKMOUNT, 100V					
APPROVING	DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LMD944996-0006					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/07/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LMD944996-0006		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0052	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD						
0054	00004.000	EA		0972802-0045	NUT, U-TYPE 6-20 X .094						
0055	REF	EA		0945138-9901	TEST PROCEDURE, PROM PROGRAMMING CONSOLE						
0056	AR	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085						
0057	00001.000	EA		2262110-0001	PLATE, IDENTIFICATION						
0060	00002.000	EA		0940049-0001	PLATE, INSULATOR						
0061	00001.000	EA		0996402-0001	ACTUATOR, SWITCH	091929-JV-91					
0063	00000.200	FT		0417177-0180	SLEEVE, PVC .250 DIA BLACK .025 WALL	QPL -MIL-1-23053/2					
0064	00001.000	EA		2263910-0001	SWITCH, ROCKER, NON-ILLUMINATED, DPST						
0064A					S3						
0065	AR	FT		0087346-0001	GROMMET-CATERPILLAR METAL THK.015 TO.052						
0068	00002.000	EA		0972988-0030	SCREW 6-32 X .500 PAN HEAD CRES						
0076	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L					
0077	00001.000	EA		2262157-0001	CABLE ASSY, PROM PRG CONSOLE, 100V/115V						
0078	REF	EA		2262160-9901	WIRING LIST, 100V/115V, PROM, PRG CONSOLE						
DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CONSOLE, PROM PROGRAMMER, RACKMOUNT, 100V					
APPROVING	DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LMD944996-0006					



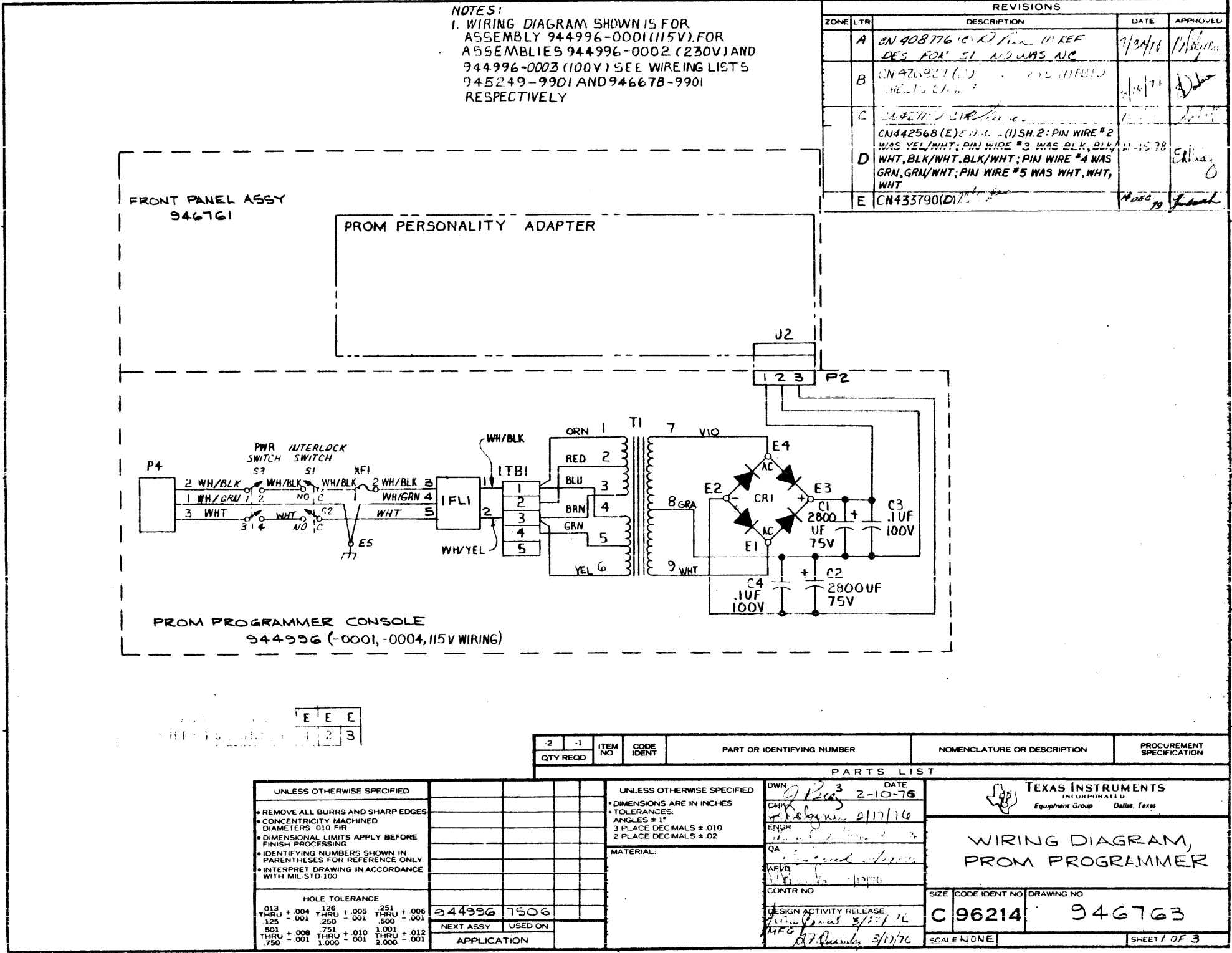
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	F	CN#2734 (10) Final 1/5N, CN VIEW J, DELETED DIM 1.190, 2 PL; 580, 2 PL, 1.463 WAS 1.450 & .810 WAS .830 (2) SHI, ON VIEW H, DELETED DIM .083 & .165 WAS .166, .155 WAS .166, .310 WAS .332 (2) SHI, DIMS .145 & .417 WERE TO EDGE OF SLOTS	11-10-77	<i>[Signature]</i>
	G	CN#33791 (10) 11/16/78 REVISED PER EXTENSIVE ENGR. CHANGES.	12-3-78	<i>[Signature]</i>



LTR	HOLE DIAMETER	QTY
A	.166 DIA. (#19)	6
B	.188 DIA. (3/16)	4
C	.120 DIA. (#31)	4
D	.144 DIA. (#27)	2

SIZE	CODE IDENT NO	DRAWING NO
D	96214	944999
SCALE	1/2	SHEET 2

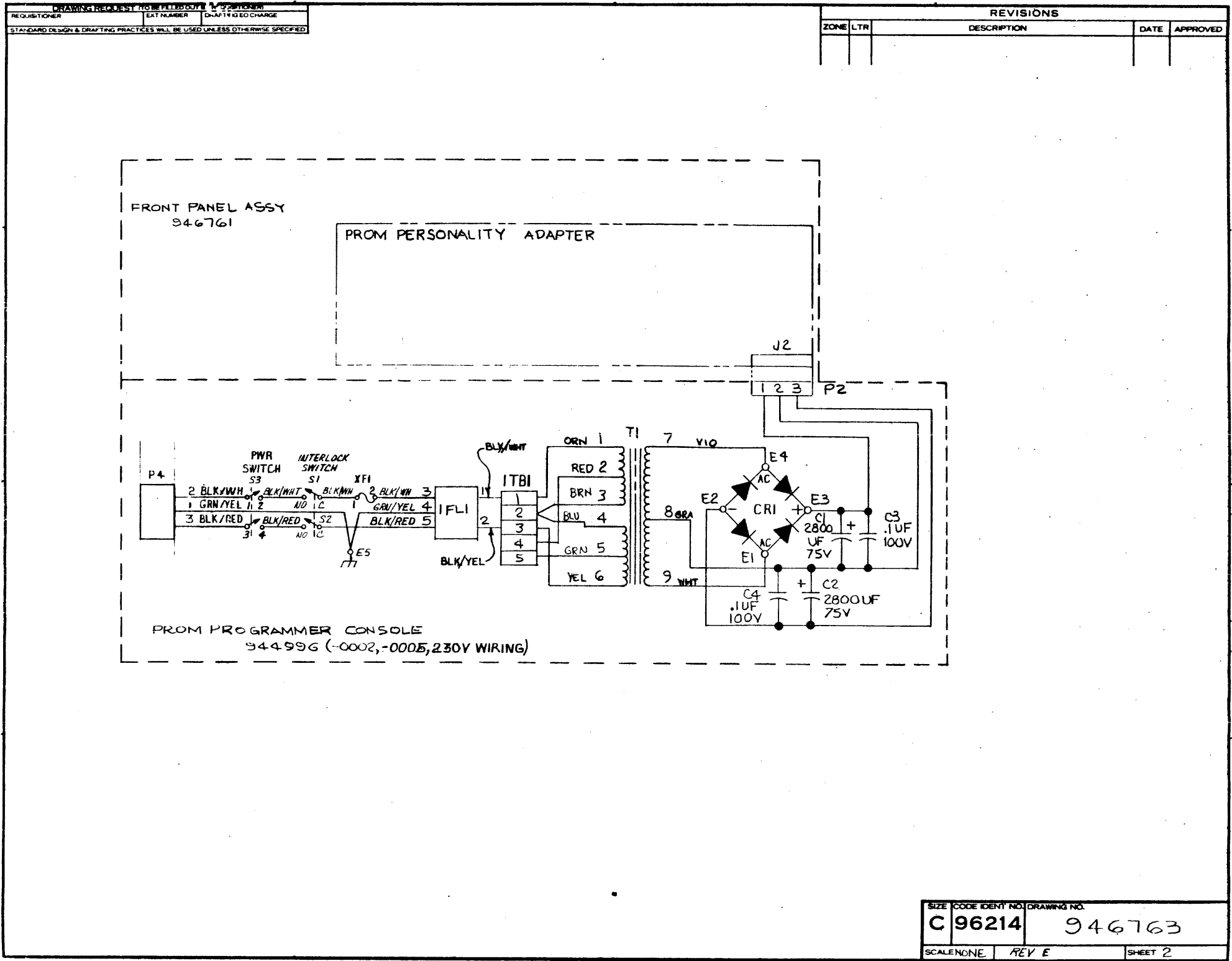
Chassis Wiring Diagram

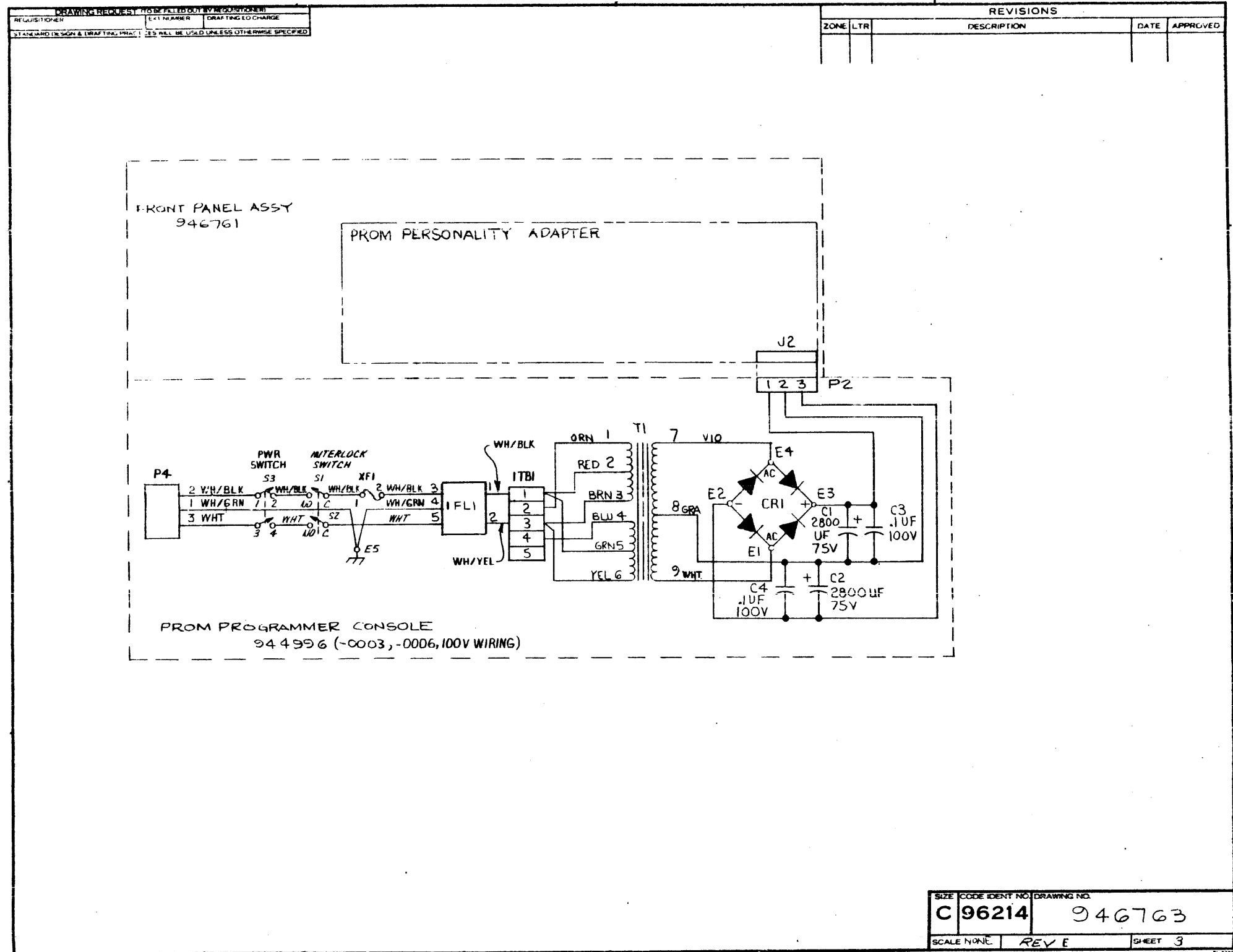


REFS

1	2	3
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-2	-1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	
				PARTS LIST			
UNLESS OTHERWISE SPECIFIED				DATE			
<ul style="list-style-type: none"> REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 				UNLESS OTHERWISE SPECIFIED * DIMENSIONS ARE IN INCHES * TOLERANCES: ANGLES ± 1° 3 PLACE DECIMALS ± .010 2 PLACE DECIMALS ± .02		TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas	
HOLE TOLERANCE .013 THRU + .004 .125 - .001 .501 + .008 .750 - .001 .128 THRU + .005 .250 - .001 .751 + .010 1.000 - .001 .251 THRU + .006 .500 - .001 1.001 THRU + .012 2.000 - .001				MATERIAL: DESIGN ACTIVITY RELEASE DATE: 8/17/76 BY: [Signature]			WIRING DIAGRAM, PROM PROGRAMMER
944996 7506 NEXT ASSY USED ON APPLICATION				DWG CHKD ENGR QA APVD CONTR NO DATE: 2-10-76 BY: [Signature]		SIZE CODE IDENT NO DRAWING NO C 96214 946763 SCALE NONE SHEET 1 OF 3	






APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
944996	7506	A	CN408755 (C) <i>K. C. ...</i>	7/27/76	<i>J. ...</i>
		B	CN426894 (C) <i>C. ...</i>	8-12-77	<i>J. ...</i>
		C	CN420892 (C) <i>C. ...</i>	10-11-77	<i>J. ...</i>
		D	CN433788 (D) <i>A. ...</i>	2-6-80	<i>J. ...</i>

NOTES:

- ~~1~~ INSTALL ITEM 22 AT FINISH STATION.
- ~~2~~ INSTALL ITEM 20 AT START AND FINISH STATION.
- ~~3~~ INSTALL ITEM 20 AT START STATION.
- ~~4~~ INSTALL ITEM 20 AT FINISH STATION.
- ~~5~~ INSTALL ITEM 20 AT START STATION.
- ~~6~~ INSTALL ITEM 21 AT FINISH STATION.
- ~~7~~ INSTALL ITEM 22 AT START STATION.
- ~~8~~ INSTALL ITEM 59 AT FINISH STATION.
- ~~9~~ INSTALL ITEM 23 AT FINISH STATION.
- ~~10~~ INSTALL ITEM 23 AT START AND FINISH STATION.
- ~~11~~ DO NOT CRIMP UNTIL ALL WIRES ARE CONNECTED.
- ~~12~~ INSTALL ITEM 20 AT FINISH STATION.
- ~~13~~ INSTALL ITEM 21 AT START STATION.
- 14 HAND SOLDER THEN INSTALL ITEM 63 AT START STATION
- 15 HAND SOLDER AT FINISH STATION

REV					
SHEET					
REV STATUS OF SHEETS		REV	D	D	D
		SHEET	1	2	3
<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES -1° 3 PLACE DECIMAL ± .010 2 PLACE DECIMALS ± .02</small> <small>IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY</small> <small>INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100</small>		DWN L. HENRY 3/2/9/76 <i>J. DeLoach 2/17/76</i> <i>H. ... 2/19/76</i> <i>... 3/19/76</i> <i>... 3/19/76</i> <i>... 3/19</i>			
		 TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas			
		WIRING LIST, PROM PROGRAMMER CONSOLE, 115V			
		SIZE	CODE IDENT NO	DRAWING NO	
		A	96214	946762	
		SCALE NONE	SHEET 1 OF 3		

N/A ITEM NO.	REMARKS	COMPONENT CONNECTION FOR FINISH STATION	COMPONENT CONNECTION FOR START STATION	SIGNATURE	TOTAL LENGTH	DESCRIPTION	WIRE NO.
77		S3-1	P4-2		4.0"	NO 18 WHT/BLK	1
		S3-3	P4-3		4.0"	NO 18 WHT	2
		E5	P4-1		5.75"	NO 18 WHT/GRN	3
		E5	1FL1-4		11.0"	NO 18 WHT/GRN	4
		1FL1-3	XFI-2		10.0"	NO 18 WHT/BLK	5
		S1-C	XFI-1		9.0"	NO 18 WHT/BLK	6
		S3-2	S1-N0		9.0"	NO 18 WHT/BLK	7
		S2-C	1FL1-5		13.0"	NO 18 WHT	8
		S3-4	S2-N0		9.0"	NO 18 WHT	9
		1TB1-1	1FL1-1		11.0"	NO 18 WHT/BLK	10
		1TB1-3	1FL1-2		11.0"	NO 18 WHT/YEL	11
		C1-1	P2-2		28.0"	NO 18 WHT/GRA	12
		C2-2	C1-1		4.0"	NO 18 WHT/GRA	13
		C2-1	P2-3		29.5"	NO 18 WHT/BLU	14
		CR1 (E2)	C2-1		9.0"	NO 18 WHT/BLU	15
		C1-2	P2-1		29.5"	NO 18 WHT/VIO	16
77		CR1 (E3)	C1-2		11.0"	NO 18 WHT/VIO	17
13		1TB1-3	T1-BRN		AR	TRANSFORMER	18
13		1TB1-2	T1-RED		AR	TRANSFORMER	19
13		1TB1-1	T1-ORN		AR	TRANSFORMER	20
13		1TB1-3	T1-YEL		AR	TRANSFORMER	21

 TEXAS INSTRUMENTS INCORPORATED DIGITAL SYSTEMS DIVISION HOUSTON, TEXAS		A	946762	REV D
		SHEET	2	

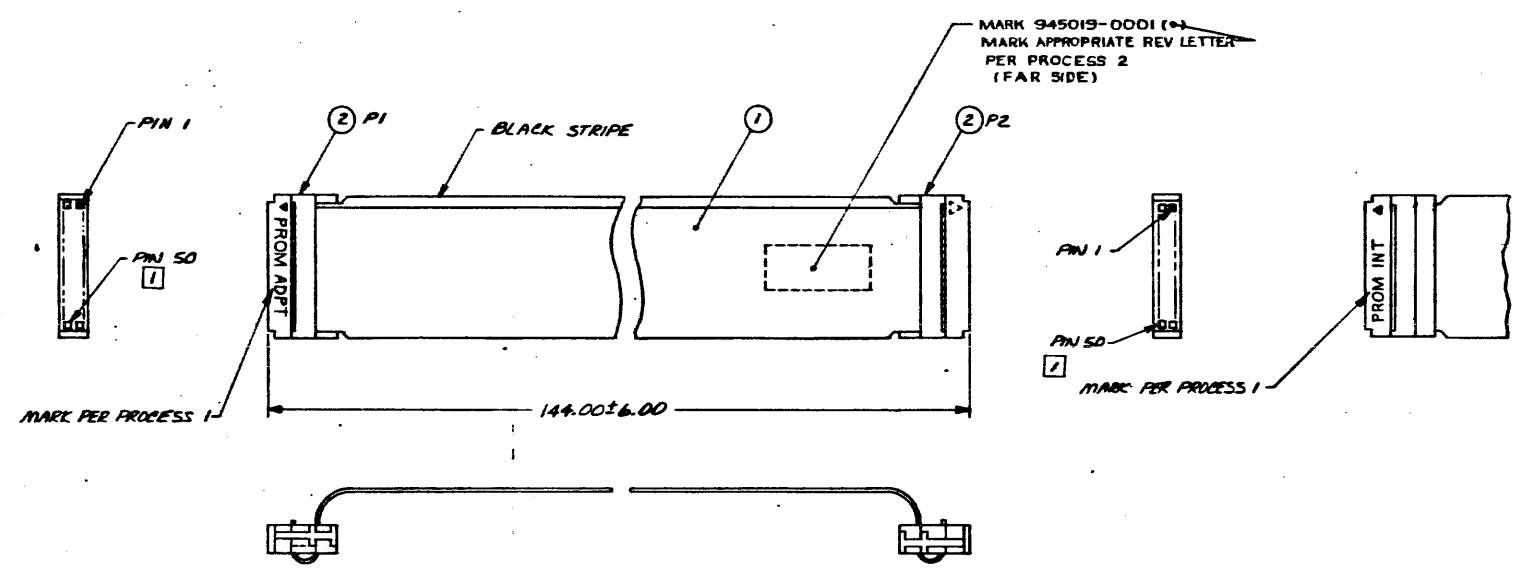
Chassis Wire List

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LM ITEM NO.
22	TRANSFORMER	AR		T1-GRN	1TB1-4		13
23	TRANSFORMER	AR		T1-BLU	1TB1-1		13
24	TRANSFORMER	AR		T1-VIO	CR1 (E4)	15	13
25	TRANSFORMER	AR		T1-GRA	C2-2		13
26	TRANSFORMER	AR		T1-WHT	CR1 (E1)	15	13

 TEXAS INSTRUMENTS INCORPORATED DIGITAL SYSTEMS DIVISION HOUSTON, TEXAS	A	946762	REV
		SHEET 3	D

NOTES:
 1. INSTALL KEY TAB IN PIN 50 AT BOTH ENDS OF THE CABLE
 2. ITEM 101 IN-0001 LM CONSISTS OF BULK CABLE ASSEMBLY MATERIAL

REV	DESCRIPTION	DATE	APPROVED
P	CN 411890 (S) (D) (1) LM, ADDED ITEM 9 & 2 ADDED NOTE 1	3/11/76	[Signature]
R	QUANTITY OF CN 411890 (S) LM DELETED ITEM 3, CITY REF	3-28-76	[Signature]
C	CN 437426 (C) (1) CREATED 5001 LM (2) ADDED ITEM 101 TO-0001 LM 3 ADDED FLAG NOTE 2 (4) ADDED PART NO. BLOCK	8-21-79	[Signature]
D	CN 433734 (D) (1) IN ZONE C-5 ADDED MARK 945019-0001 (2) ADDED PROC 2	2-8-80	[Signature]



945019-5001	BULK CABLE ASSY MATERIAL FOR-0001
945019-0001	CABLE ASSY, PROM PROGRAMMER
PART NUMBER	DESCRIPTION

PROCESSES:
 1. MARK PER F-100, METHOD III, CLASS 12, COLOR BLACK, TYPE 6
 2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .25, COLOR BLACK

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES		DIMENSIONS ARE IN INCHES	
CONCENTRICITY MACHINED DIAMETERS (D) FOR		TOLERANCES	
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING		ANGLES	
IDENTIFYING NUMBER SHOWN IN PARENTHESES FOR REFERENCE ONLY. INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-170		3 PLACE DECIMALS - .010	
		2 PLACE DECIMALS - .02	
HOLE TOLERANCE			
.013 - .001	.125 - .005		
.125 - .001	.250 - .010		
.501 - .008	.751 - .010		
.751 - .001	1.001 - .010		
	1.001 - .001		
		NEAT AS USED ON APPLICATION	

QTY REQD	ITEM NO	COLE IDENT	PART OR IDENTIFY NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
				TEXAS INSTRUMENTS CORPORATION Dallas, Texas	
				CABLE ASSY, PROM PROGRAMMER	
				SIZE: CODE IDENT NO: DRAWING NO:	
				D 96214	945019
				SCALE: NONE	SHEET

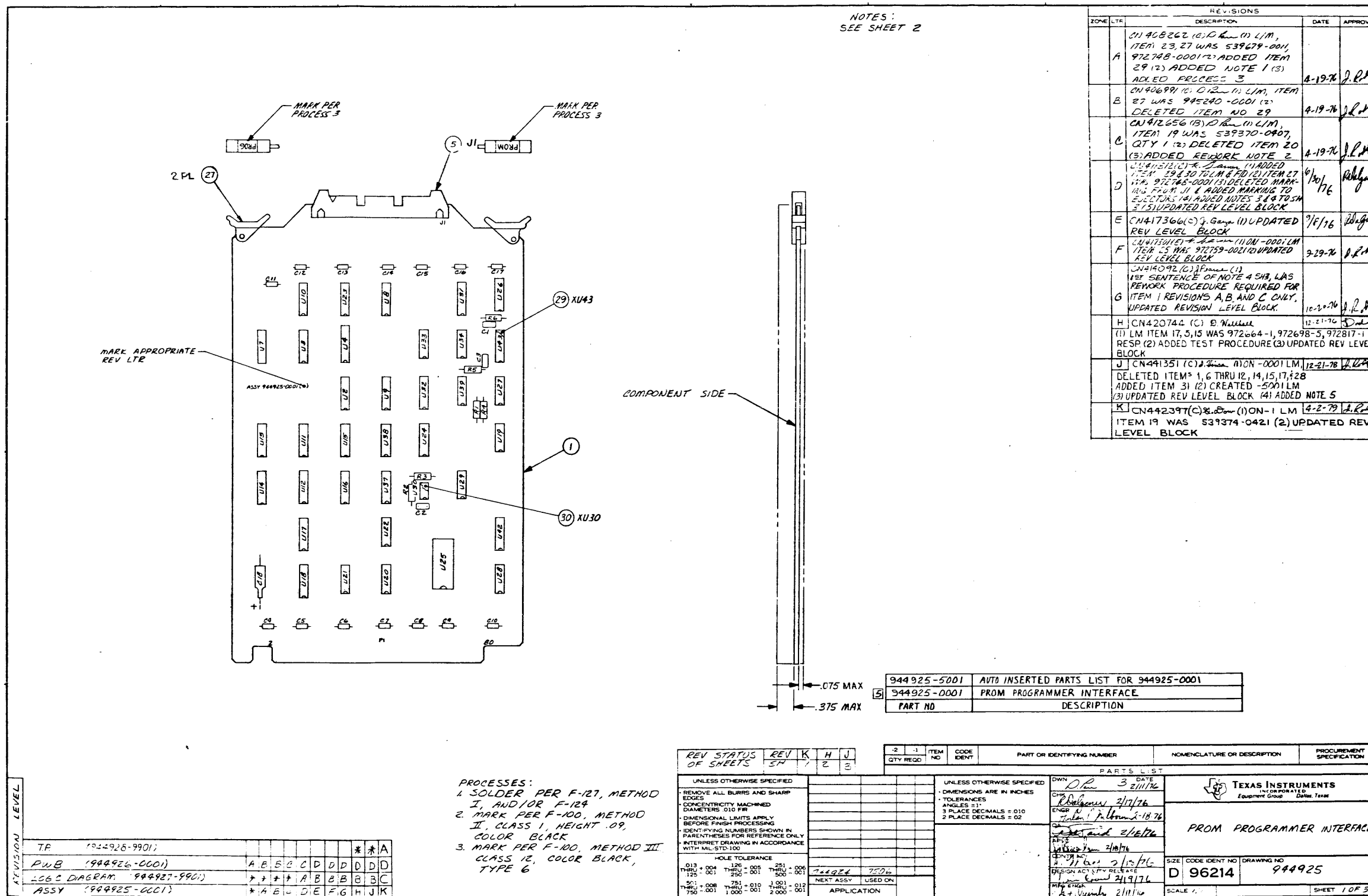
PROM Programmer Cable Assembly

TEXAS INSTRUMENTS INCORPORATED		DATE 07/19/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945019-0001		REV D 8	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	00002.000	EA		0972697-0006	CONNECTOR,FLTCBL,50P,CBL MTG W/STR RLF P1 P2						
0002A											
0004	00002.000	EA		0972707-0001	CONNECTOR, KEY, POLARIZING						
0101	00001.000	EA		0945019-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001						

DATE	C.D. DRAFTSMAN	DATE	PERSON ENGINEER	DATE	TITLE	
	J. Ross	8-1-79			CABLE ASSY, PROM PROGRAMMER	
DATE	APP. PROJECT ENGINEER	DATE	REBAID	DATE	PROJECT NO.	
					7506	
					PART NUMBER	REV
					LM0945019-0001	D 8

TEXAS INSTRUMENTS INCORPORATED		DATE 07/19/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945019-5001		REV D 8	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00012.000	FT		0972694-0005	CABLE,FLAT,50 CONDUCTOR,GND PLANE,DRAIN						

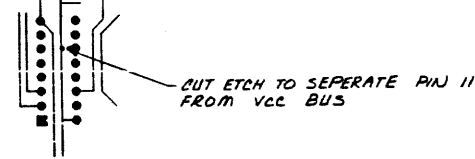
DATE	C.D. DRAFTSMAN	DATE	PERSON ENGINEER	DATE	TITLE	
					BULK CABLE ASSEMBLY MATERIAL FOR -0001	
DATE	APP. PROJECT ENGINEER	DATE	REBAID	DATE	PROJECT NO.	
					PART NUMBER	REV
					LM0945019-5001	D 8



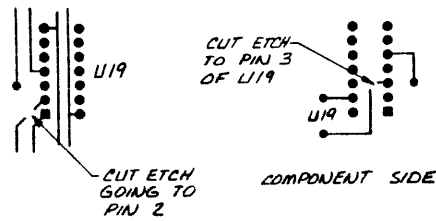
NOTES: (COND. FROM SH. 1)

1. REWORK PROCEDURE REQUIRED FOR ITEM 1 REV A ONLY:

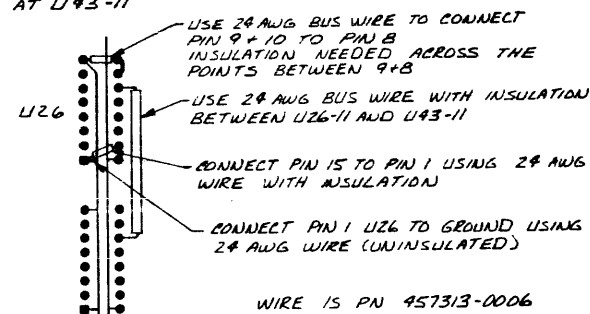
A. CUT ETCH ON CONDUCTOR SIDE OF U26 AT PIN 11



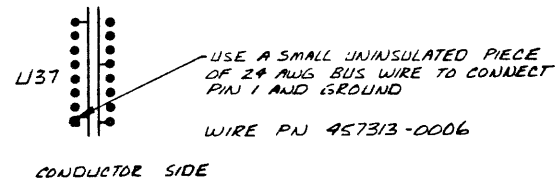
B. CUT ETCH TO PIN 2 ON CONDUCTOR SIDE OF BOARD AT U19. CUT ETCH TO PIN 3 ON COMPONENT SIDE AT U19



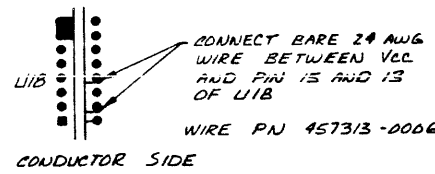
C. U26 CONNECTIONS, CONNECT PINS 1, 9, 10, 15 TO GROUND, CONNECT PIN 11 TO PRESET- AT U43-11



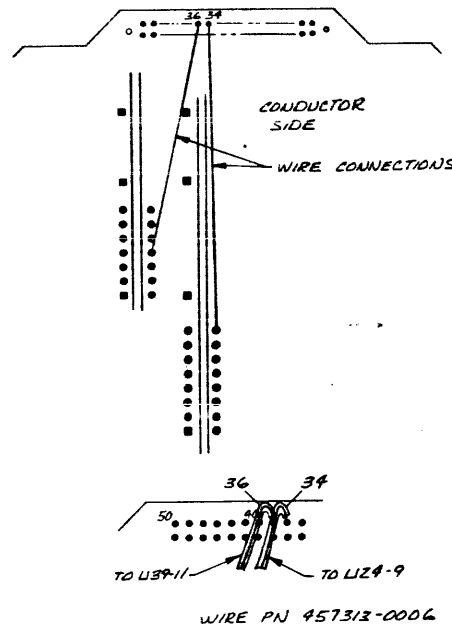
D. CONNECTING GROUND TO U37



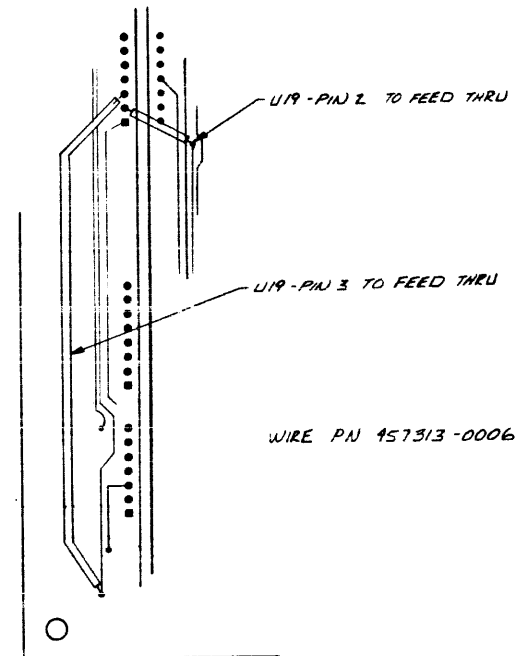
E. CONNECT VCC TO U18 PINS 13 AND 15



F. CONNECT AN INSULATED 24 AWG WIRE FROM J1-PIN 34 TO U24-PIN 9 AT J1 THE WIRE SHOULD COME OUT PERPENDICULAR TO THE TOP EDGE OF THE BOARD AND THEN ARCH TO U24-9. CONNECT AN INSULATED 24 AWG WIRE FROM J1-PIN 36 TO U39-PIN 11. AT J1 THE WIRE SHOULD COME OUT PERPENDICULAR TO THE TOP OF THE BOARD AND ARCH TO U39-PIN 11



G. CONNECT U19-PIN 3 TO FEED THRU AT BOTTOM LEFT HAND CORNER OF CONDUCTOR SIDE (24 AWG-INSULATED WIRE) CONNECT U19-PIN 2 TO FEED THRU THAT USED TO CONNECT TO PIN 3 (24 AWG-INSULATED WIRE)

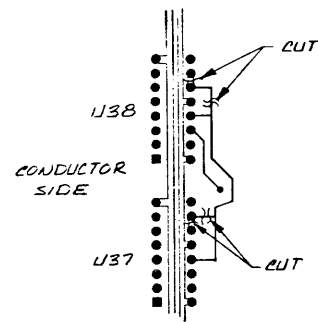


2. REWORK PROCEDURE REQUIRED FOR ITEM 1 REVISIONS A AND B ONLY.

- A. CUT ETCH CONNECTING U37-PIN 4 AND U37-PIN 12 ON THE COMPONENT SIDE
- B. CUT ETCH CONNECTING U37-10 + U37-11 ON BOTH SIDES OF THE BOARD
- C. CUT THE ETCH AT U37-14 TO SEPARATE IT FROM THE MASS CONNECTION ON THE COMPONENT SIDE
- D. CUT THE ETCH CONNECTING U37-10 AND U37-13 ON THE CONDUCTOR SIDE
- E. CUT THE ETCH CONNECTING U38-10 AND U38-11 ON THE CONDUCTOR SIDE
- F. CUT THE ETCH CONNECTING U38-11 AND U38-13

(CONT ON SH 3)

SIZE	CODE IDENT NO	DRAWING NO
D	96214	944925
SCALE		SHEET 2

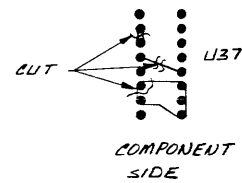


NOTES: (CONT)

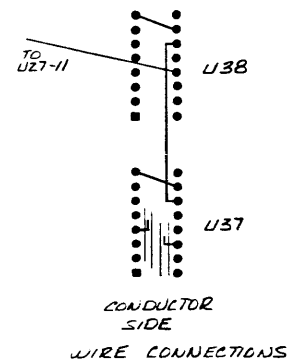
3. REWORK PROCEDURE REQUIRED FOR ITEM 1
REV A AND B ONLY:
A. ADD WIRE U37-10 TO U37-B

4. REWORK PROCEDURE REQUIRED FOR ITEM 1
REV A, B, C, AND D ONLY:
A. CUT ETCH TO J1 PLUS 39, 49 AND 50 ON THE
CONDUCTOR SIDE
B. BEFORE INSTALLING ITEM 5, CUT PIN 50 TO
ALLOW KE-100 CABLE TO BE USED

5. ITEM 31 - V-6001 LM CONSISTS OF COMPONENTS
WHICH ARE AUTO-INSERTED AND CONTAINED IN
THE -5001 LM



- 2 G. CONNECT U38-10 TO GND
 - H. CONNECT U38-13 TO U27-11
 - J. CONNECT U38-11 TO U37-11
 - K. CONNECT U37-4 TO GND
 - L. CONNECT U37-7 TO GND
 - M. CONNECT U37-14 TO Vcc
- ALL CONNECTS TO BE MADE
WITH 457313-0006 - 24 AWG WIRE



SIZE	CODE IDENT NO	DRAWING NO
D	96214	944925
SCALE	J	SHEET 3

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944925-0001		REV K		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0002	REF	EA		0944927-9901	LOGIC DIAGRAM, PROM PROGRAMMER INTERFACE					
0003	REF	EA		0944928-9901	TEST PROCEDURE, PROM PROGRAMMER INTERFACE					
0004	REF	EA		0944929-9901	SPECIFICATIONS, PROM PROGRAMMER INTERFACE					
0005	00001.000	EA		0972137-0005	CONNECTOR, PC 50 PIN	BEI - 65483-005				
0005A					J1					
0013	00001.000	EA		0222222-7150	NETWORK SN74150N					
0013A					U25					
0016	00001.000	EA		0972810-0001	NETWORK-SN74LS221N					
0016A					U43					
0018	00001.000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	ST -NE555V				
0018A					U30					
0019	00002.000	EA		0539374-0427	RES, FXD, FILM, 2.74K OHMS, 1/4 W, 1%	024546-SEE DWG				
0019A					R2 R3					
0021	00002.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH - R-25				
0021A					R1 R4					
0022	00002.000	EA		0972946-0069	RES FIX 10K OHM 5% .25 W CARBON FILM	ROH - R-25				
0022A					R5 R6					
0023	00001.000	EA		0972929-0405	CAP, FIXED CERAMIC, .0027UF 10% 100V					
0023A					C2					
0024	00002.000	EA		0972929-0415	CAP FIX CERAMIC .010 UF 10% 100 V	RPL -R39303/1-2263				
DRAFTSMAN		DATE	CEO	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PROM PROGRAMMER INTERFACE	
APPROVED		DATE	APPROVED	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	LM0944925-0001 K	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944925-0001		REV K		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0024A					C1 C3					
0025	00014.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%					
0025A					C4 THRU C17					
0026	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10% 10 VOLT QPL	-R39303/1-2263				
0026A					C18					
0027	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB					
0029	00001.000	EA		0539544-0002	SOCKET, 16PIN IC LOW PROFILE SOLDER TAIL	TI -C93-16-02				
0029A					XU43					
0030	00001.000	EA		0539544-0006	SOCKET, 8PIN IC LOW PROFILE SOLDER TAIL	TI -C93-08-02				
0030A					XU30					
0031	00001.000	EA		0944925-5001	AUTO-INSERTED PARTS LIST FOR 944925-0001					
DRAFTSMAN		DATE	CEO	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PROM PROGRAMMER INTERFACE	
APPROVED		DATE	APPROVED	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	LM0944925-0001 K	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944925-5001		REV K		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0944926-0001	PWB, PROM PROGRAMMER INTERFACE					
0006	00003.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N				
0006A					U22, U27, U29					
0007	00001.000	EA		0972900-7403	NETWORK SN74LS03N					
0007A					U19					
0008	00004.000	EA		0972900-7404	NETWORK SN74LS04N					
0008A					U21, U29, U33, U34					
0009	00002.000	EA		0972749-0001	NETWORK, SN74LS08N					
0009A					U20, U28					
0010	00002.000	EA		0222222-7497	NETWORK SN7497N					
0010A					U37, U38					
0011	00001.000	EA		0972900-7112	NETWORK SN74LS112N	TI -SN74LS112N				
0011A					U42					
0012	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N				
0012A					U31, U32					
0014	00008.000	EA		0801383-0001	NETWORK SN74LS151N					
0014A					U11 THRU U18					
0015	00001.000	EA		0972817-0002	IC, SN74LS193 4 BIT-UP/DOWN COUNTERS					
0015A					U26					
0017	00002.000	EA		0972120-0001	NETWORK, SN74259 8-BIT ADDRESSABLE LATCH	001295-74259				
DRAFTSMAN		DATE	CEO	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO-INSERTED PARTS LIST FOR 944925-0001	
APPROVED		DATE	APPROVED	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	LM0944925-5001 K	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944925-5001		REV K		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0017A					U23, U24					
0028	00007.000	EA		0972900-7175	NETWORK SN74LS175N					
0028A					U2, U3, U4, U7, U8, U9, U10					
DRAFTSMAN		DATE	CEO	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO-INSERTED PARTS LIST FOR 944925-0001	
APPROVED		DATE	APPROVED	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	LM0944925-5001 K	

- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES ARE PREFIXED WITH SN74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:

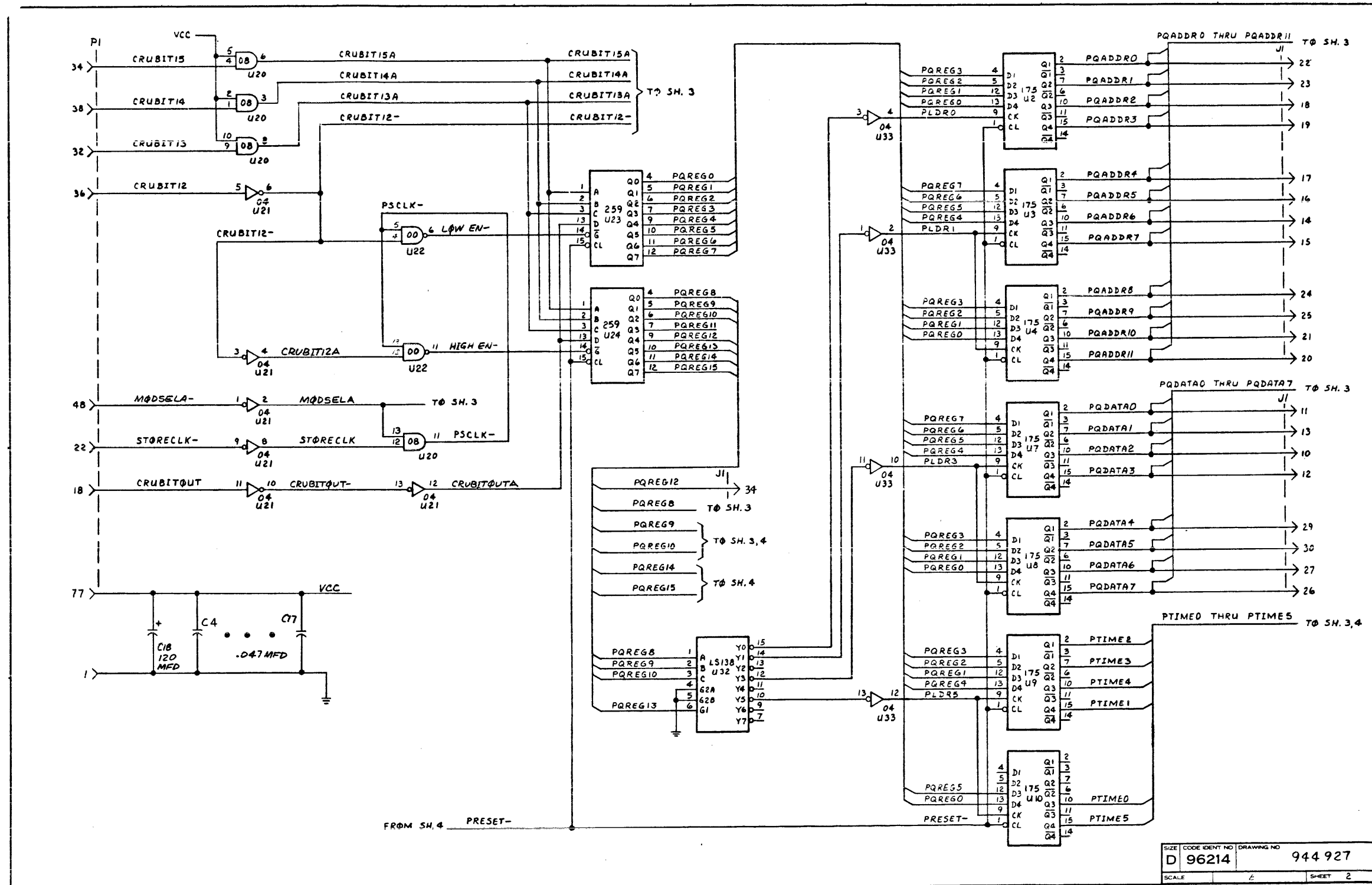


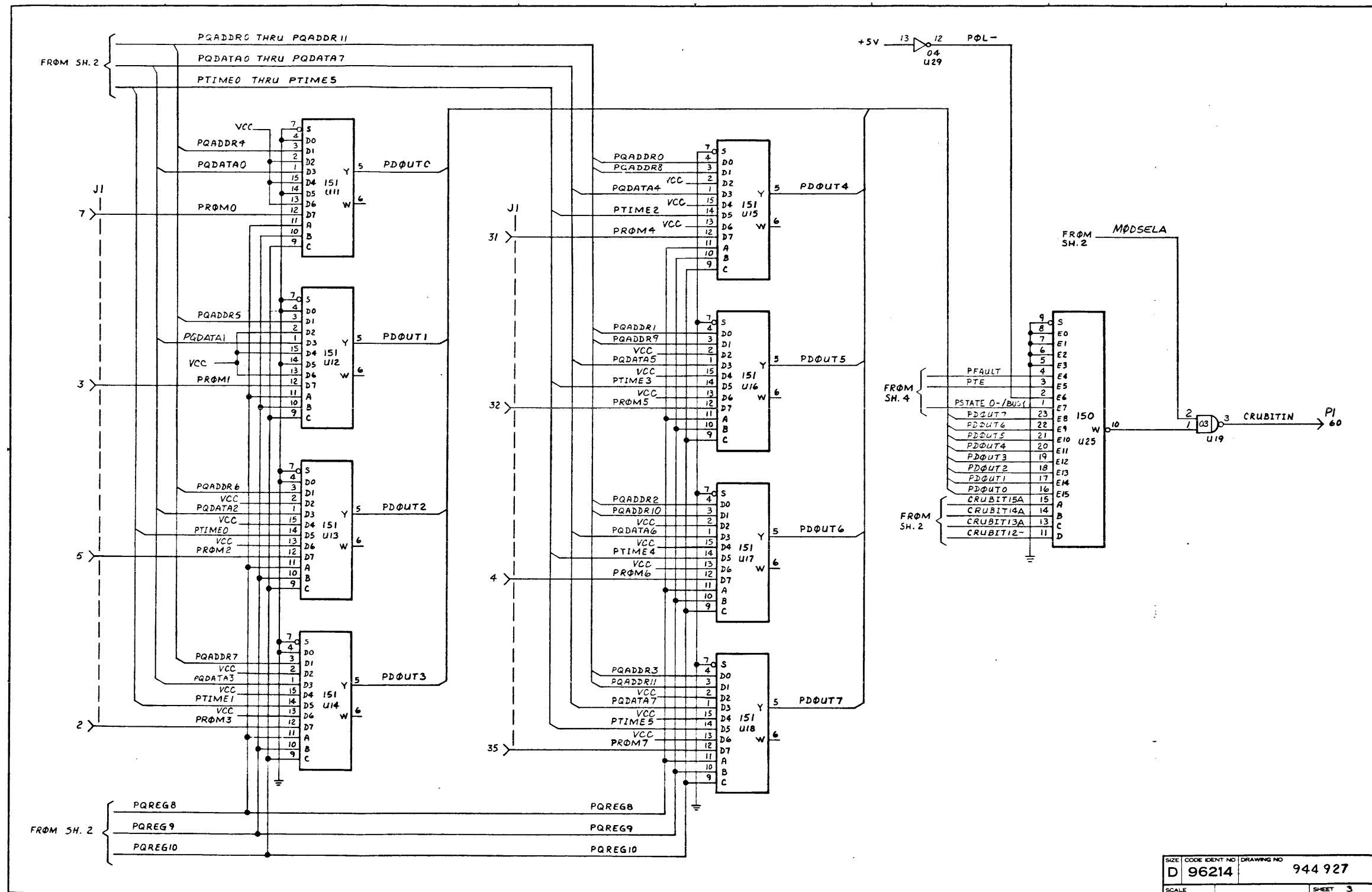
- 00 AND 04 = DEVICE TYPE
 4, 5, AND 6 = PIN NUMBERS
 U6 AND U10 = REFERENCE DESIGNATOR
5. ALL RESISTORS 1/4 WATT, 5%
 6. INSTALL RESISTANCE AS REQUIRED FOR PROPER TIMING OF 1.0MS ± .1MS

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL DESIGN	11/17/75	[Signature]
	B	REVISED	3/22/76	[Signature]
	C	CH 44299B(C) 7/14/76	7/14/76	[Signature]

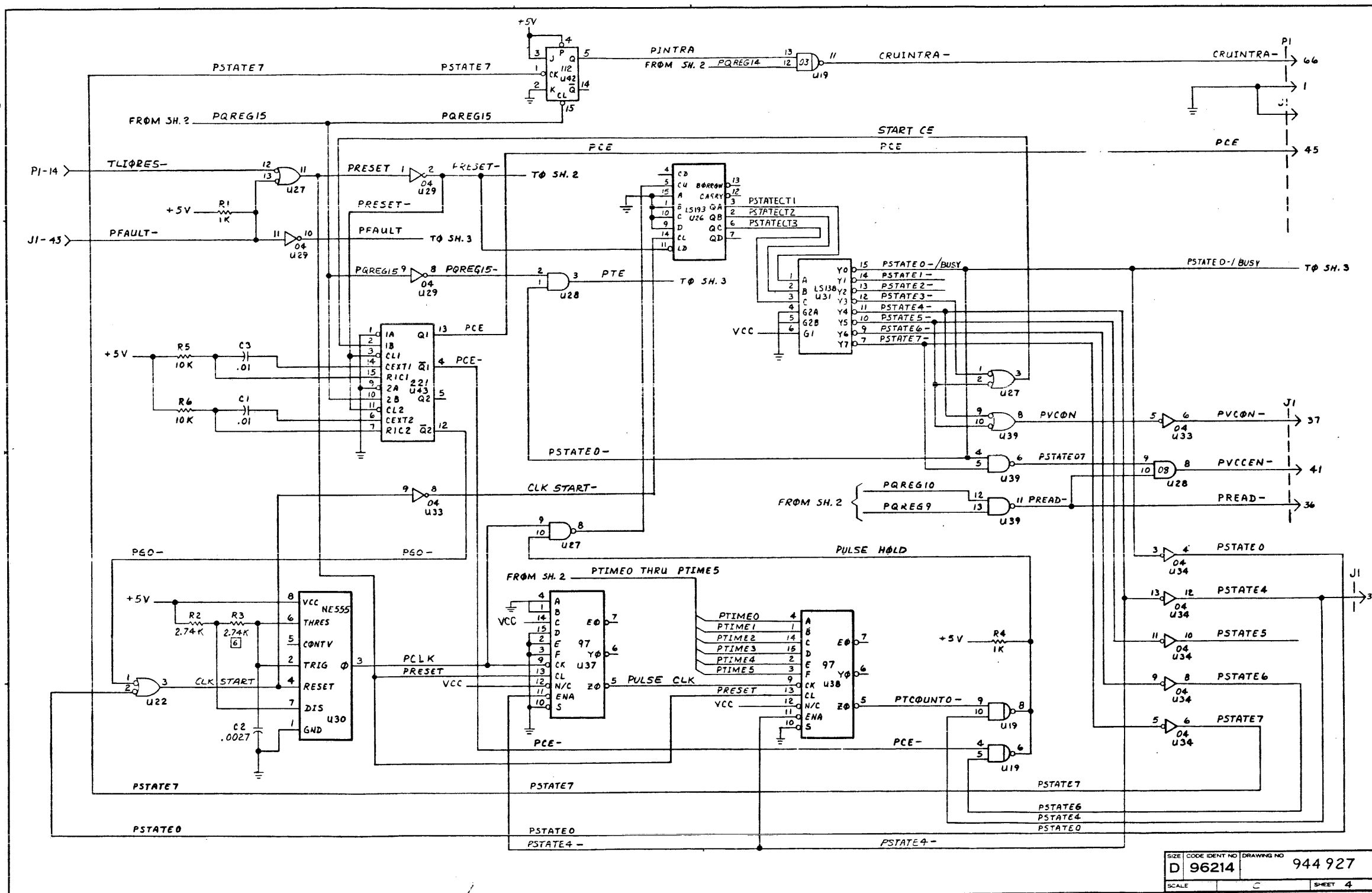
REV STATUS OF SHEETS	REV	C	B	A	QTY	REGD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
	1										

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES	DWG: K. [Signature]	DATE: 11/17/75
CONCENTRICITY MACHINED DIAMETERS .010 FR	TOLERANCES	CHK: C. [Signature]	DATE: 3-22-76
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES ±1°	ENGR: [Signature]	DATE: 3/22/76
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ± 0.10	QA: [Signature]	DATE: 4/22/76
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	2 PLACE DECIMALS ± 0.02	APVD: [Signature]	DATE: 4/22/76
HOLE TOLERANCE	MATERIAL:	CONTR NO:	
0.13 +.004 - .001		DESIGN ACTIVITY RELEASE:	
1.25 +.005 - .001		SCALE: 1:1	
2.50 +.008 - .001			
7.50 +.010 - .001			
1.000 +.012 - .001			





SIZE	CODE IDENT NO	DRAWING NO
D	96214	944 927
SCALE		SHEET 3



NOTES CONTINUED

7. MODIFY ALL 945135-0001, REV # THRU REV D PER RETROFIT KIT 940060 USING PARTS CALLED OUT ON LM OF 940060
 8. APPLY ITEM (8) TO ITEM (5) THREAD AREA WHEN INSTALLING INTO ITEM (1)

NOTES: CONTINUED

1. ~~TIGHTEN FIRST NUT AGAINST PANEL TIGHTEN SECOND NUT AGAINST FIRST NUT WITHOUT TURNING FIRST NUT~~
 2. ~~REMOVE KEYS FROM LOCK BARREL~~
 3. ~~REMOVE KEYS FROM LOCK BARREL~~
 4. ~~REMOVE KEYS FROM LOCK BARREL~~
 5. ~~REMOVE KEYS FROM LOCK BARREL~~
 6. ~~REMOVE KEYS FROM LOCK BARREL~~
 7. ~~REMOVE KEYS FROM LOCK BARREL~~
 8. CLIP OFF PLASTIC PROTRUSIONS ON BACKSIDE OF FRONT PANEL USING SIDE CUTTERS OR OTHER SUITABLE INSTRUMENT

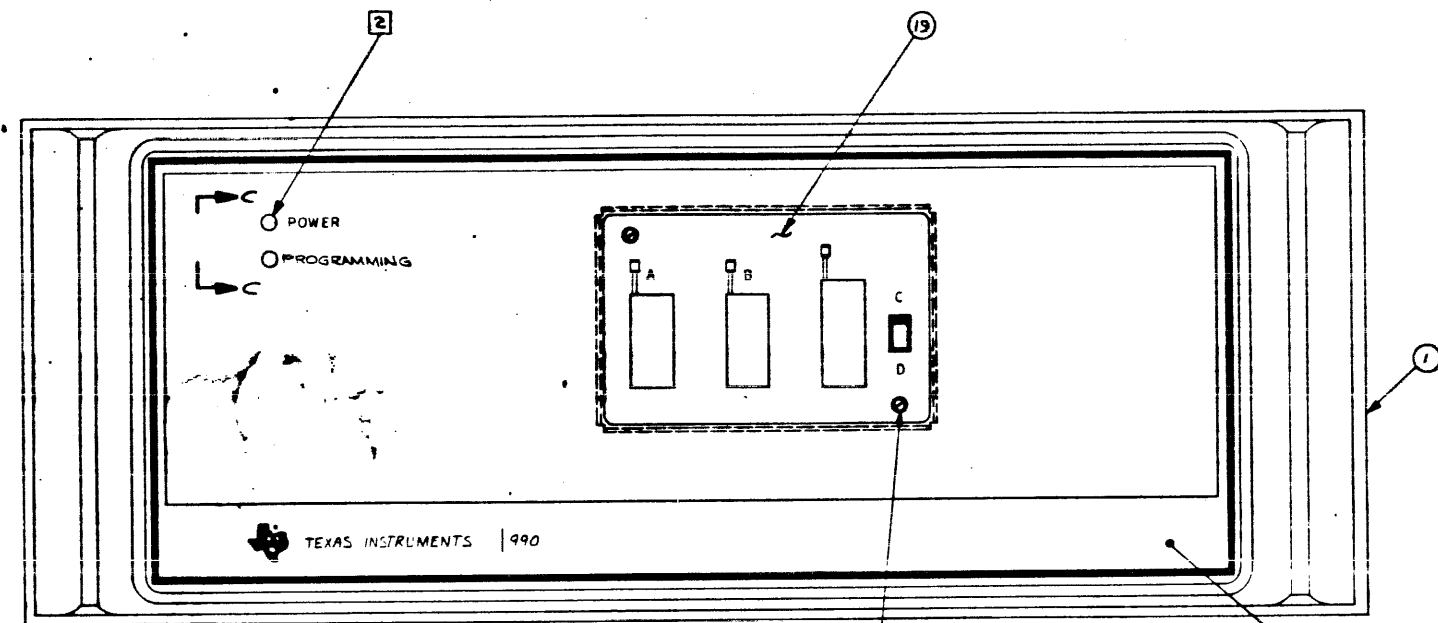
NOTES:

1. ~~REMOVE KEYS FROM LOCK BARREL~~
 2. ~~REMOVE KEYS FROM LOCK BARREL~~
 3. ~~REMOVE KEYS FROM LOCK BARREL~~
 4. ~~REMOVE KEYS FROM LOCK BARREL~~
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 98. ~~REMOVE KEYS FROM LOCK BARREL~~
 99. ~~REMOVE KEYS FROM LOCK BARREL~~
 100. ~~REMOVE KEYS FROM LOCK BARREL~~

ZONE/LTR	DESCRIPTION	DATE	APPROVED
A	01/15/76 (1) DELETED REVISIONS REV 3 WITH CHANGE (2) REVISED PICTORIAL AND LIM ARE EXTENSIVE ENGR CHANGES	4/28/76	Ed. Healy
B	01/15/76 (1) LIM ITEM 10 WAS 972679-0000, QTY 2 (2) ADDED ITEM 17 (2) REVISED REV STATUS BLOCK	6/10/76	Ed. Healy
C	01/15/76 (1) DELETED REVISIONS REV 3 WITH CHANGE (2) REVISED PICTORIAL AND LIM ARE EXTENSIVE ENGR CHANGES	2/15/76	Ed. Healy
D	01/15/76 (1) DELETED REVISIONS REV 3 WITH CHANGE (2) REVISED PICTORIAL AND LIM ARE EXTENSIVE ENGR CHANGES	5-12-77	Ed. Healy
E	01/15/76 (1) DELETED REVISIONS REV 3 WITH CHANGE (2) REVISED PICTORIAL AND LIM ARE EXTENSIVE ENGR CHANGES	8-31-77	J. R. Coff
F	01/15/76 (1) DELETED REVISIONS REV 3 WITH CHANGE (2) REVISED PICTORIAL AND LIM ARE EXTENSIVE ENGR CHANGES	10-23-77	J. R. Coff
G	01/15/76 (1) DELETED REVISIONS REV 3 WITH CHANGE (2) REVISED PICTORIAL AND LIM ARE EXTENSIVE ENGR CHANGES	1-2-78	J. R. Coff
H	01/15/76 (1) DELETED REVISIONS REV 3 WITH CHANGE (2) REVISED PICTORIAL AND LIM ARE EXTENSIVE ENGR CHANGES	4-20-78	J. R. Coff
J	01/15/76 (1) DELETED REVISIONS REV 3 WITH CHANGE (2) REVISED PICTORIAL AND LIM ARE EXTENSIVE ENGR CHANGES	9-27-78	Ed. Healy
K	01/15/76 (1) DELETED REVISIONS REV 3 WITH CHANGE (2) REVISED PICTORIAL AND LIM ARE EXTENSIVE ENGR CHANGES	11-9-78	J. R. Coff
L	01/15/76 (1) DELETED REVISIONS REV 3 WITH CHANGE (2) REVISED PICTORIAL AND LIM ARE EXTENSIVE ENGR CHANGES	3-13-80	Ed. Healy

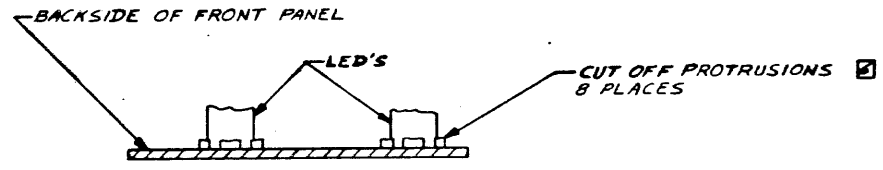
945135-0002	ADAPTER, PROGRAMMING, SPARE PARTS KIT
945135-0001	ADAPTER, PROGRAMMING, FROM, DASH 1
PART NUMBER	DESCRIPTION

REV STATUS OF SHEETS	REV L L L	SH 1 2 3	2	1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
UNLESS OTHERWISE SPECIFIED REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 F11 DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100								TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas Texas	
HOLE TOLERANCE								ADAPTER, PROGRAMMING, FROM	
0.013 +.004	1.26 - .005	251 - .005							
.125 +.001	THRU - .001	THRU 300 - .001							
301	.751	1.00							
THRU +.008	THRU +.010	THRU +.012							
.750	- .001	2.000 - .001							



FRONT VIEW
- 0001 SHOWN

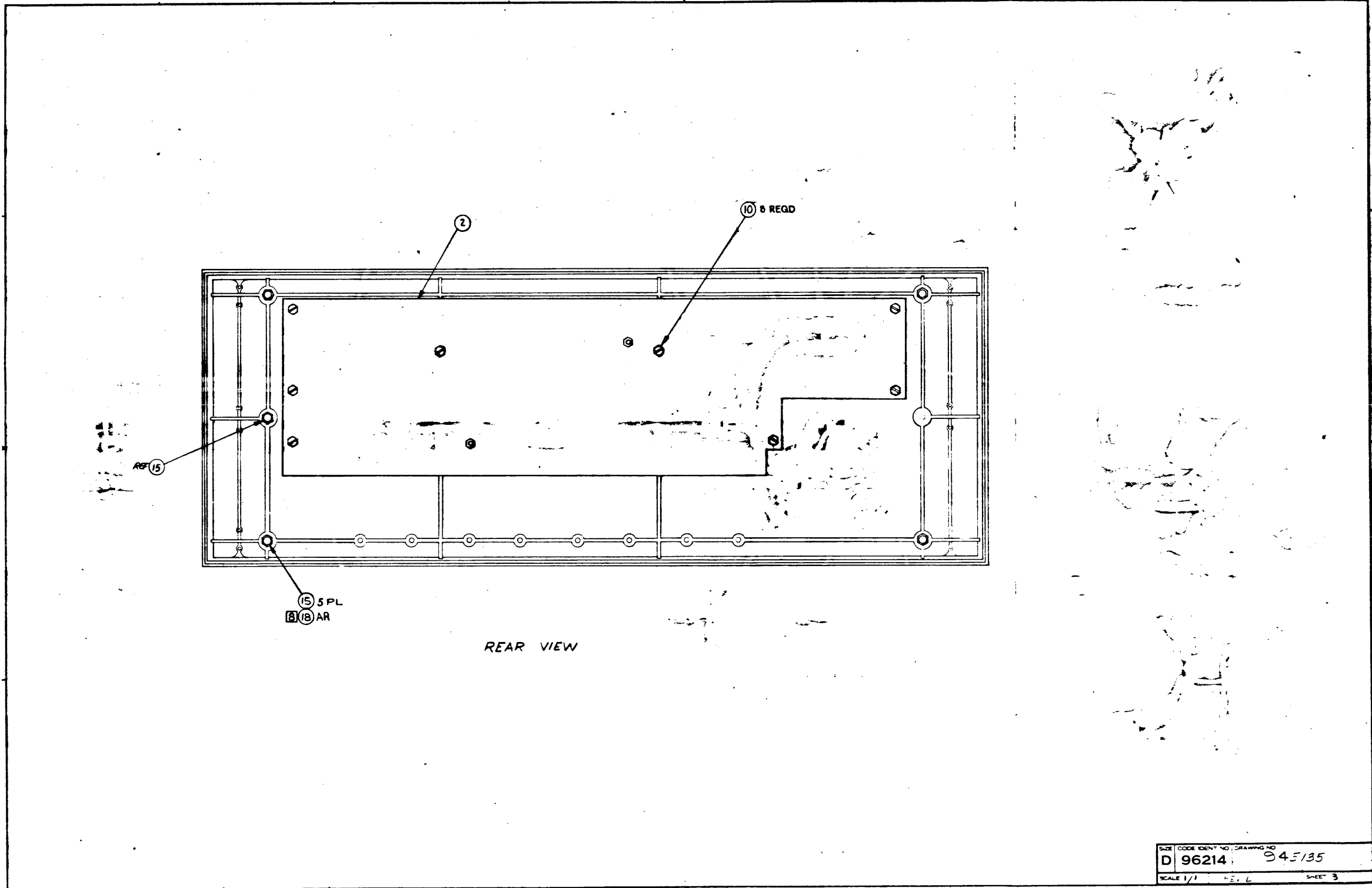
- 20 SCREW
 - 21 FLAT
 - 22 INT
 - 23 NUT
- } 2 PL



VIEW C-C
SCALE: NONE
ROTATED 90° CW



SIZE	CODE	QTY	NO	DRAWING NO
D	96214			945135
SCALE	1/1	REV	L	SHEET 2



SIZE	CODE IDENT NO.	DRAWING NO.
D	96214	945135
SCALE	1/1	SHEET 3

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945135-0001		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0945156-0001	FRONT PANEL, PROM PROGRAMMER				
0002	0001.000	EA		0944975-0001	SUB-ASSY, PROM PERSONALITY				
0003	0001.000	EA		0945157-0001	OVERLAY, PROM PROGRAMMER				
0010	0000.000	EA		0972683-0007	SCREW, 4-20 X 5/8 IN D FM, SLCT HX DSR HD				
0015	00005.000	EA		0802235-0002	STUD, BALL-FRICTION CATCH				
0018	0000.150	EA		0996639-0001	ADHESIVE, EPOXY, 2-PART KIT, CLEAN	004347-008			
0019	0001.000	EA		0945238-0001	COVER, OPENING, FRONT PANEL				
0020	0002.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRCS				
0021	0002.000	EA		0416022-0011	WASHER #4 FLAT	UPL - ANY00L4L			
0022	0002.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TIGHT CNES	UPL - MS35333-7L			
0023	0002.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRCS STEEL	MS - 35649-244			

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ADAPTER, PROGRAMMING, PROM WASH 1					
APD: MFC	DATE	APD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506	PART NUMBER		LM0945135-0001	REV	L

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945135-0002		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0944975-0001	SUB-ASSY, PROM PERSONALITY				

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ADAPTER, PROGRAMMING, PROM PARTS KIT					
APD: MFC	DATE	APD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER		LM0945135-0002	REV	L

- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES ARE PREFIXED WITH SN74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



00 AND 04 = DEVICE TYPE
 4, 5 AND 6 = PIN NUMBERS
 U6 AND U10 = REFERENCE DESIGNATOR

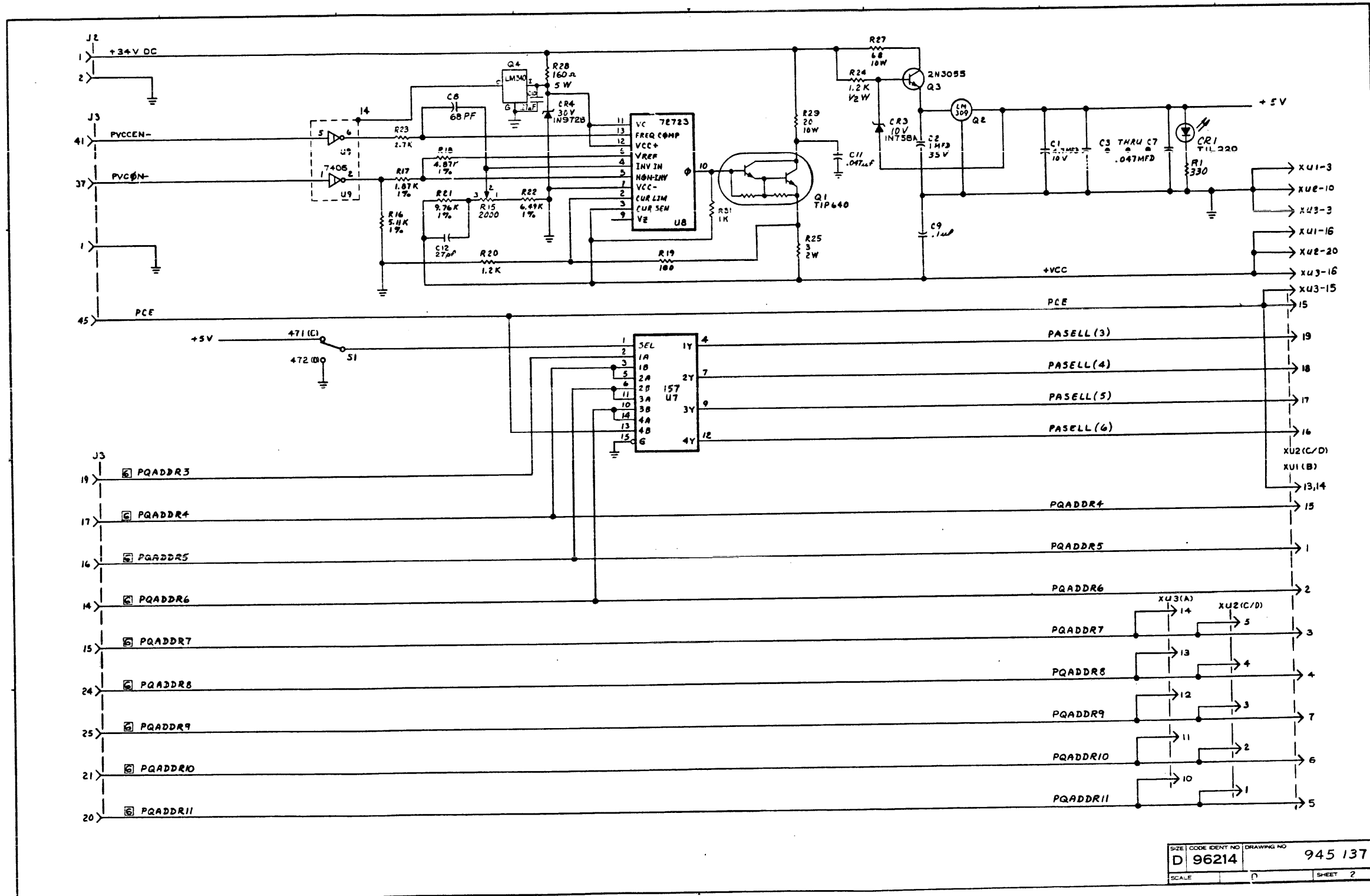
5. ALL RESISTORS 1/4 WATT, ±5%
6. TI PROM ADDRESS ASSIGNMENTS ARE IN REVERSE ORDER TO COMPUTER ADDRESSES.

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	A	...	...
	B	...	...
	C	...	...
	D	...	...

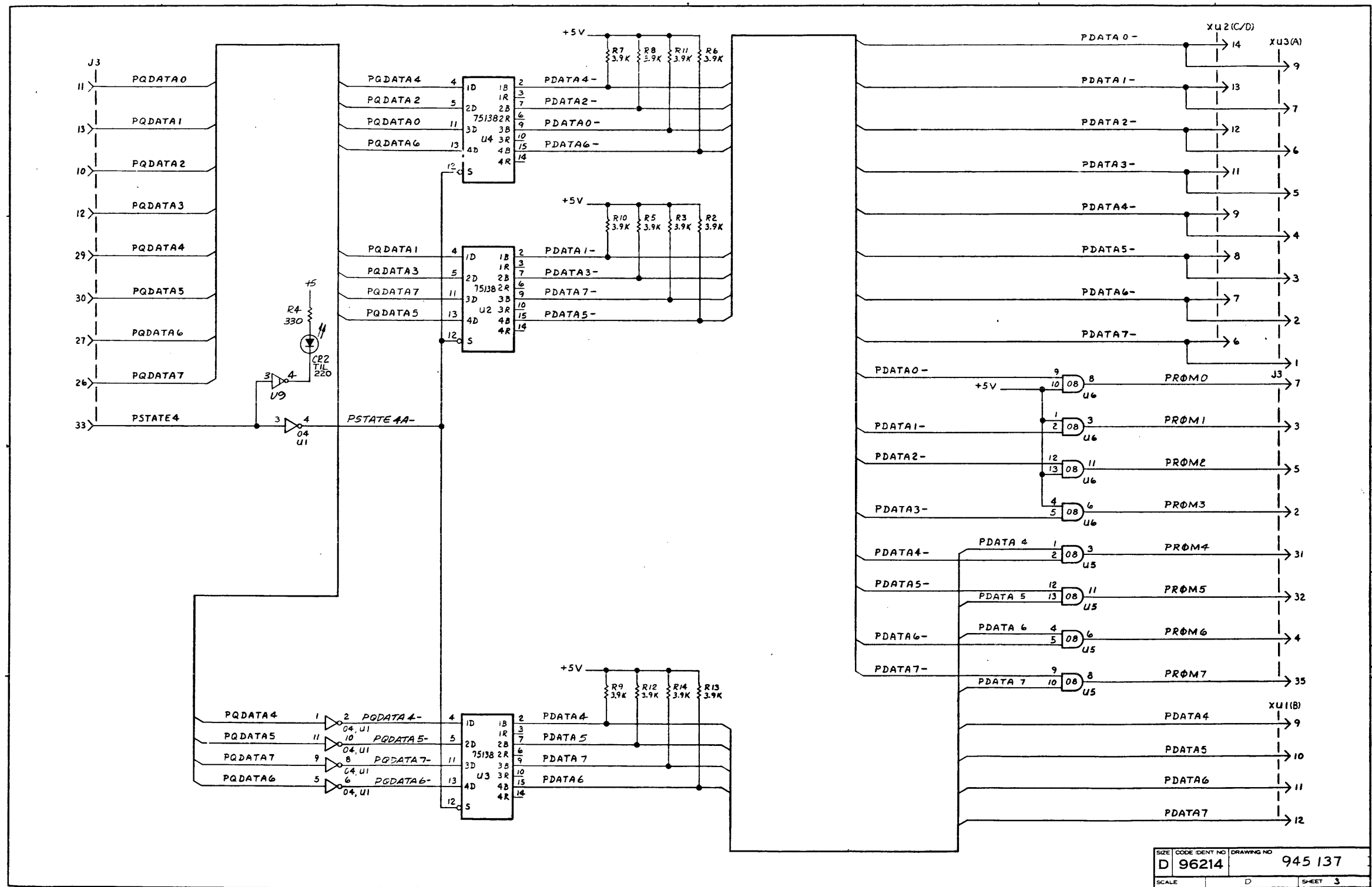
REV STATUS	REV	D	D
OF SHEETS	SHEET	2	3

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
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UNLESS OTHERWISE SPECIFIED * REMOVE ALL BURRS AND SHARP EDGES * CONCENTRICITY MACHINED DIAMETERS .010 FIR * DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING * IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY * INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	UNLESS OTHERWISE SPECIFIED * DIMENSIONS ARE IN INCHES * TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02	DWN DATE 11-6-75	TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas
		ENGR 5/1/76		LOGIC DIAGRAM, PROM PROGRAMMER PERSONALITY CARD
HOLE TOLERANCE .013 THRU .001 126 THRU .001 251 THRU .001 125 THRU .001 300 .501 THRU .001 751 THRU .010 1.001 THRU .010 1.000 THRU .001 2.000 THRU .001	NEXT ASSY USED ON APPLICATION	DESIGNED BY CHECKED BY DATE	SIZE CODE IDENT NO DRAWING NO D 96214 945137
		DESIGN ACTIVITY RELEASE	SCALE: SHEET 3 OF 3



SIZE	CODE IDENT NO	DRAWING NO
D	96214	945 137
SCALE	1	SHEET 2

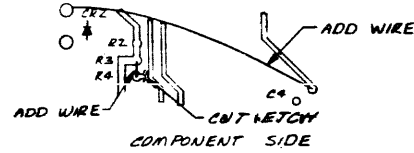


SIZE	CODE IDENT NO	DRAWING NO
D	96214	945 137
SCALE	D	SHEET 3

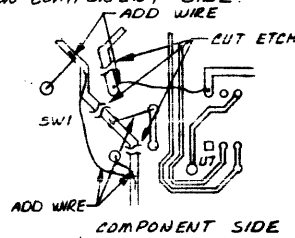
NOTES:

1. TO USE PWB 945136 THE FOLLOWING CHANGES MUST BE MADE:

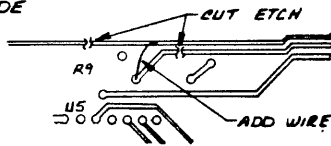
- A. ADD A WIRE FROM TOP PIN OF CR2 TO FEEDTHRU SHOWN ABOVE C4
- B. CONNECT R3 TO R4 ON COMPONENT SIDE
- C. CUT ETCH GOING TO R4



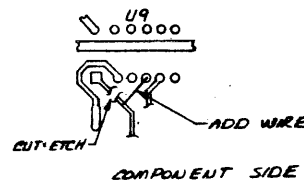
- D. CONNECT GROUND TO FEED THRU AT SW1
- E. CONNECT VCC TO TOP PIN OF SW1 AT U7-16
- F. CONNECT GROUND TO ETCH RUN BELOW SW1
- G. CONNECT BOTTOM PIN OF SW1 TO GROUND
- H. CONNECT MIDDLE PIN OF SW1 TO FEED THRU NEXT TO SW1
- J. CUT ETCH TO ALL THREE CONNECTIONS OF SW1 ON COMPONENT SIDE



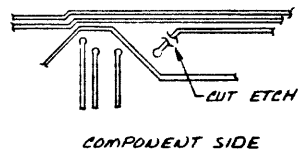
- K. CONNECT FEED THRU AT R9 TO TOP ETCH RUN
- L. CUT BOTH RUNS ABOVE R9 AND U5 ON COMPONENT SIDE



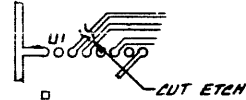
- M. CONNECT U9-4 TO ETCH RUN AT R16
- N. CUT ETCH TO U9-1



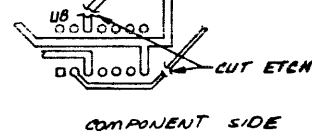
- P. CUT ETCH RUN ABOVE XU1



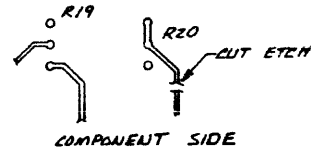
- R. CUT ETCH GOING TO U1-12 ON COMPONENT SIDE



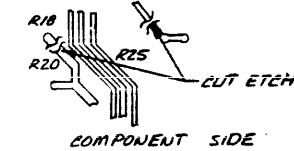
- S. CUT ETCH TO UB-12 AND UB-2



- T. CUT ETCH TO R20 + R19

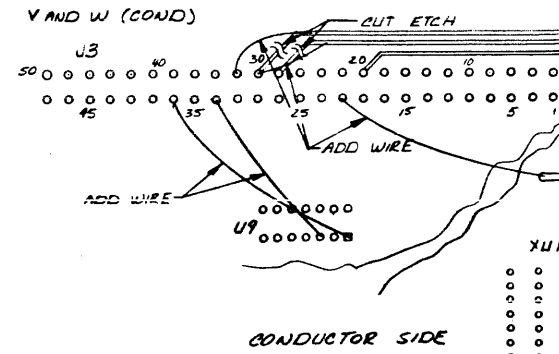


- U. CUT ETCH TO R25 BOTH ENDS



- V. CONNECT TOP ETCH RUN TO J3-32 AND CONNECT BOTTOM ETCH RUN TO J3-30. CONNECT J3-21 TO FEED THRU ABOVE XU1. CONNECT J3-33 TO U9-3 AND J3-37 TO U9-1

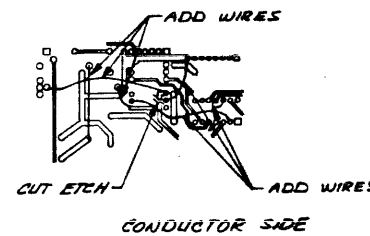
- W. CUT ETCH TO J3-28 AND J3-30



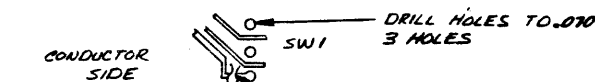
- Y. CONNECT U7-10 TO U7-14 CONDUCTOR SIDE



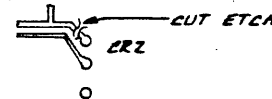
- Z. CONNECT R24 TO FEED THRU ABOVE Q1. CONNECT R25 TO R19 AND R25 TO R21 AND R20 TO UB-2 AND UB-11 TO UB-12 AND CONNECT R20 TO GROUND AT U9. CUT ETCH TO R19



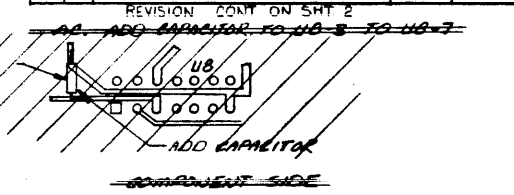
- AA. CUT ETCH TO BOTTOM PIN OF SW1 AND DRILL HOLES TO .070



- AB. CUT ETCH TO TOP PIN OF CR2 CONDUCTOR SIDE



ZONE LTR	DESCRIPTION	DATE	APPROVED
D-8 C-8	CN411831(C) (REVISED E.G. & PICTORIAL UNDER J TO SHOW CHANGES: E WAS CONNECT GROUND TO TOP PIN OF SW1; G WAS CONNECT BOTTOM PIN ON SW1 TO ETCH AT U7-16 (2) UPDATED REV LEVEL BLOCK: SM2 (1) ADDED NOTE 2	6/27/76	[Signature]
A-8 D-8	CN411899 (B) CR2 (1) LIM, ITEM 30 QTY WAS 6 + DELETED REF DES. CR2 DELETED NOTE 1AC + ADDED NOTE 3 (3) UPDATED REV LEVEL BLOCK	8/19/76	[Signature]
	CN411899 (C) CR2 (1) REVISED LIM + PICTORIAL PER EXTENSIVE ENGR CHANGE (UPDATED REV LEVEL)	8/19/76	[Signature]
	CN407679 (2) CR2 (1) REVISED LIM + NOTES PER EXTENSIVE ENGR CHANGE (ADDED PW 1 TO IC + POLARITY TO CI + CL (3) UPDATED REV LEVEL BLOCK	8/19/76	[Signature]
	CN419445 (B) J3 (1) (1) ADDED "E" TO NOTE 3(2) ADDED NOTE 4 (3) LIM, ADDED ITEM 68 & 69 (4) REVISED SECTION 8-8 TO SHOW ITEM 69 (5) ADDED PROC 3 (4) UPWARD REV LEVEL BLK (7) REVERSED DIR INVERT 10M (8) ON NOTE 5 "REV A" WAS "REV #A" (9) REVISED REV LEVEL BLK	10-5-76	[Signature]
	CN413400 (E) C. Valley (1) -1 LM, ITEM 39 WAS 972756-0005, 25V CAP (2) REVISED REV LEVEL BLK	10-5-76	[Signature]
	CN417301 (E) J3 (1) (1) -1 LM, ITEM 30 WAS 972759-0021, 25V CAP (2) UPDATED REV LEVEL BLOCK	10-5-76	[Signature]
	CN422597 (B) J3 (1) (1) REVISED PER EXTENSIVE ENGINEERING CHANGES	11/76	[Signature]



- AD. ON COMPONENT SIDE REMOVE PART NUMBER MARKING "ASSY 945136-0001". RUBBER STAMP THE FOLLOWING IN THE SAME LOCATION: ASSY 944975-0001 AND THE APPROPRIATE REV LTR.

(NOTES CONT SHD)

TEST PROC (945148-9901)	B	B	B	B	B	B	C	C	D
PWB (945136-0001)	E	E	E	E	E	F	G	G	G
LOGIC DIAGRAM (945137-9901)	B	B	B	B	B	B	B	B	C
ASSY (944975-0001)	N	P	R	T	U	V	W	Y	M

TEST PROC (945148-9901)	A	B	B	B	B	B	C	D	D	D
PWB (945136-0001)	A <td>A <td>A <td>A <td>A <td>A <td>A <td>A <td>B <td>B</td> </td></td></td></td></td></td></td></td>	A <td>A <td>A <td>A <td>A <td>A <td>A <td>B <td>B</td> </td></td></td></td></td></td></td>	A <td>A <td>A <td>A <td>A <td>A <td>B <td>B</td> </td></td></td></td></td></td>	A <td>A <td>A <td>A <td>A <td>B <td>B</td> </td></td></td></td></td>	A <td>A <td>A <td>A <td>B <td>B</td> </td></td></td></td>	A <td>A <td>A <td>B <td>B</td> </td></td></td>	A <td>A <td>B <td>B</td> </td></td>	A <td>B <td>B</td> </td>	B <td>B</td>	B
LOGIC DIAGRAM (945137-9901)	A <td>A <td>A <td>A <td>A <td>A <td>A <td>A <td>B <td>B</td> </td></td></td></td></td></td></td></td>	A <td>A <td>A <td>A <td>A <td>A <td>A <td>B <td>B</td> </td></td></td></td></td></td></td>	A <td>A <td>A <td>A <td>A <td>A <td>B <td>B</td> </td></td></td></td></td></td>	A <td>A <td>A <td>A <td>A <td>B <td>B</td> </td></td></td></td></td>	A <td>A <td>A <td>A <td>B <td>B</td> </td></td></td></td>	A <td>A <td>A <td>B <td>B</td> </td></td></td>	A <td>A <td>B <td>B</td> </td></td>	A <td>B <td>B</td> </td>	B <td>B</td>	B
ASSY (944975-0001)	A <td>B <td>C <td>D <td>E <td>F <td>G <td>H <td>J <td>K</td> </td></td></td></td></td></td></td></td>	B <td>C <td>D <td>E <td>F <td>G <td>H <td>J <td>K</td> </td></td></td></td></td></td></td>	C <td>D <td>E <td>F <td>G <td>H <td>J <td>K</td> </td></td></td></td></td></td>	D <td>E <td>F <td>G <td>H <td>J <td>K</td> </td></td></td></td></td>	E <td>F <td>G <td>H <td>J <td>K</td> </td></td></td></td>	F <td>G <td>H <td>J <td>K</td> </td></td></td>	G <td>H <td>J <td>K</td> </td></td>	H <td>J <td>K</td> </td>	J <td>K</td>	K

- PROCESSES:
1. SOLDER PER F-127, METHOD I, AND/OR F-128
 2. MARK PER F-100, METHOD I, CLASS 1, HEIGHT .09, COLOR BLACK
 3. MARK PER F-100, METHOD II, COLOR BLACK

REV STATUS OF SHEETS	REV	NA	AA	AA	AA	AA	AA	AA	AA
1	1								

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES
CONCENTRICITY MACHINED DIAMETERS .010 PER	TOLERANCES AND FITS: 1" 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.005
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	
INTERNET DRAWING IN ACCORDANCE WITH MIL-STD-100	
HOLE TOLERANCE	
.013 ±.001	
.015 ±.001	
.018 ±.001	
.020 ±.001	
.025 ±.001	
.030 ±.001	
.035 ±.001	
.040 ±.001	
.045 ±.001	
.050 ±.001	
.055 ±.001	
.060 ±.001	
.065 ±.001	
.070 ±.001	
.075 ±.001	
.080 ±.001	
.085 ±.001	
.090 ±.001	
.095 ±.001	
.100 ±.001	
.105 ±.001	
.110 ±.001	
.115 ±.001	
.120 ±.001	
.125 ±.001	
.130 ±.001	
.135 ±.001	
.140 ±.001	
.145 ±.001	
.150 ±.001	
.155 ±.001	
.160 ±.001	
.165 ±.001	
.170 ±.001	
.175 ±.001	
.180 ±.001	
.185 ±.001	
.190 ±.001	
.195 ±.001	
.200 ±.001	

DATE	BY	CHK	ENGR	APPV	DESIGN ACTIVITY RELEASE
3/16/76	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]

DATE	BY	CHK	ENGR	APPV	DESIGN ACTIVITY RELEASE
3/16/76	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]

SIZE	CODE IDENT NO	DRAWING NO
D	96214	944975

SCALE	SHEET	TOTAL SHEETS
1/1	10	10

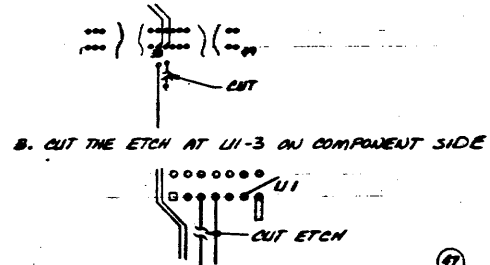
TEXAS INSTRUMENTS
INCORPORATED
Equipment Group Dallas, Texas

SUBASSEMBLY,
TTL PROM PERSONALITY

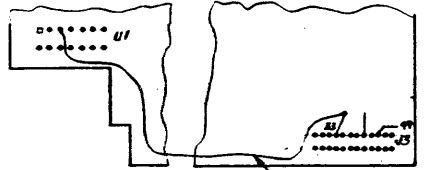
SCALE 1/1

SHEET 10 OF 10

NOTES: (CONT)
 2. BEFORE INSTALLING ITEM 5 (J3) CUT PIN 50 TO ALLOW USE OF KEYS CABLE
 3. REWORK FOR PWB 945136 REV A, THE FOLLOWING CHANGES MUST BE MADE:
 A. CUT THE ETCH FROM J3-33 ON COMPONENT SIDE.

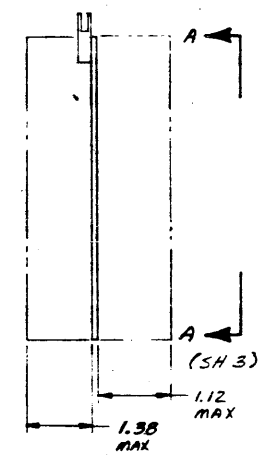
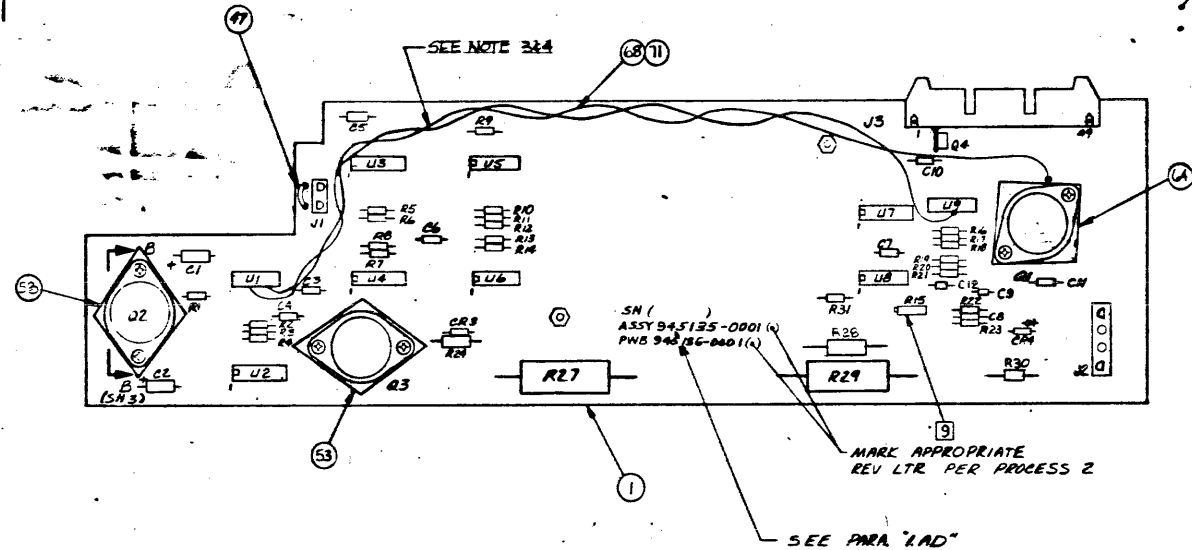
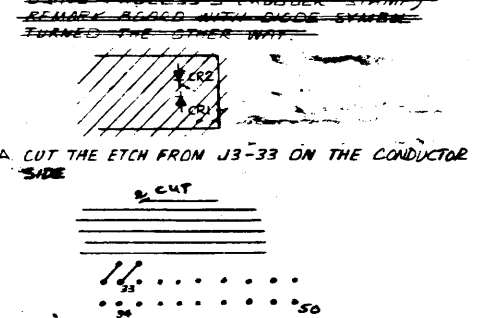


NOTES: (CONT)
 C. ADD WIRE FROM U1-3 TO FEED-THRU FROM J3-33 IT SHOULD BE ROUTED AROUND THE AREA OF THE SOCKET COVER. CONDUCTOR SIDE

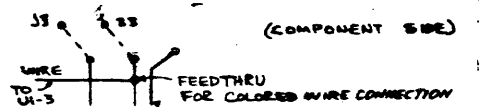


D. ADD WIRE FROM U6-5 TO U2-7 COMPONENT SIDE
 E. CONNECTOR U2 MUST BE INSTALLED OPPOSITE THE DIRECTION SHOWN IN ZONE B4, SHEET 2

NOTES: (CONT)
 4. REWORK FOR PWB 945136 REV B,C
 A. REMOVE DIODE MARKING FOR CR2 FROM CONDUCTOR SIDE OF BOARD USING PROCESS 2 (RUBBER STAMP) REMARK RUBBER DIODE SYMBOL TURNED THE OTHER WAY.

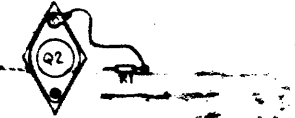


NOTES: (CONT)
 (4) B. CUT THE ETCH FROM THE U1-3 ON THE COMPONENT SIDE
 C. FOR PWB 945136 REV B,C,D,E
 CONNECT BLUE WIRE OF TWISTED PAIR (ITEM 68) FROM J3-33 FEEDTHRU TO U1-3 ON THE COMPONENT SIDE. CONNECT WHITE WIRE OF THE TWISTED PAIR TO U5-7 TO U1-7



THE TWISTED PAIR MUST BE ROUTED ALONG TOP OF THE BOARD AND NOT MELTED TO THE BOARD

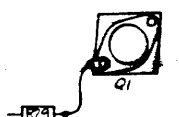
5. REWORK FOR PWB 945136 REV "B"
 A. CONNECT SOLDER LUG (PART NO. 412257-6) AND NO. 22 GA WIRE (PART NO. 538555-3999) FROM Q2 CASE TO RIGHT SIDE OF R1 COMPONENT LEAD



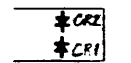
NOTES: (CONT)
 B. CONNECT SOLDER LUG (PART NO. 412257-6) AND NO. 22 GA WIRE (PART NO. 538555-3999) FROM Q3 CASE TO LEFT SIDE OF R27 COMPONENT LEAD



C. CONNECT SOLDER LUG (PART NO. 412257-6) AND NO. 22 GA WIRE (PART NO. 538555-3999) FROM Q1 CASE TO RIGHT SIDE OF R29 COMPONENT LEAD



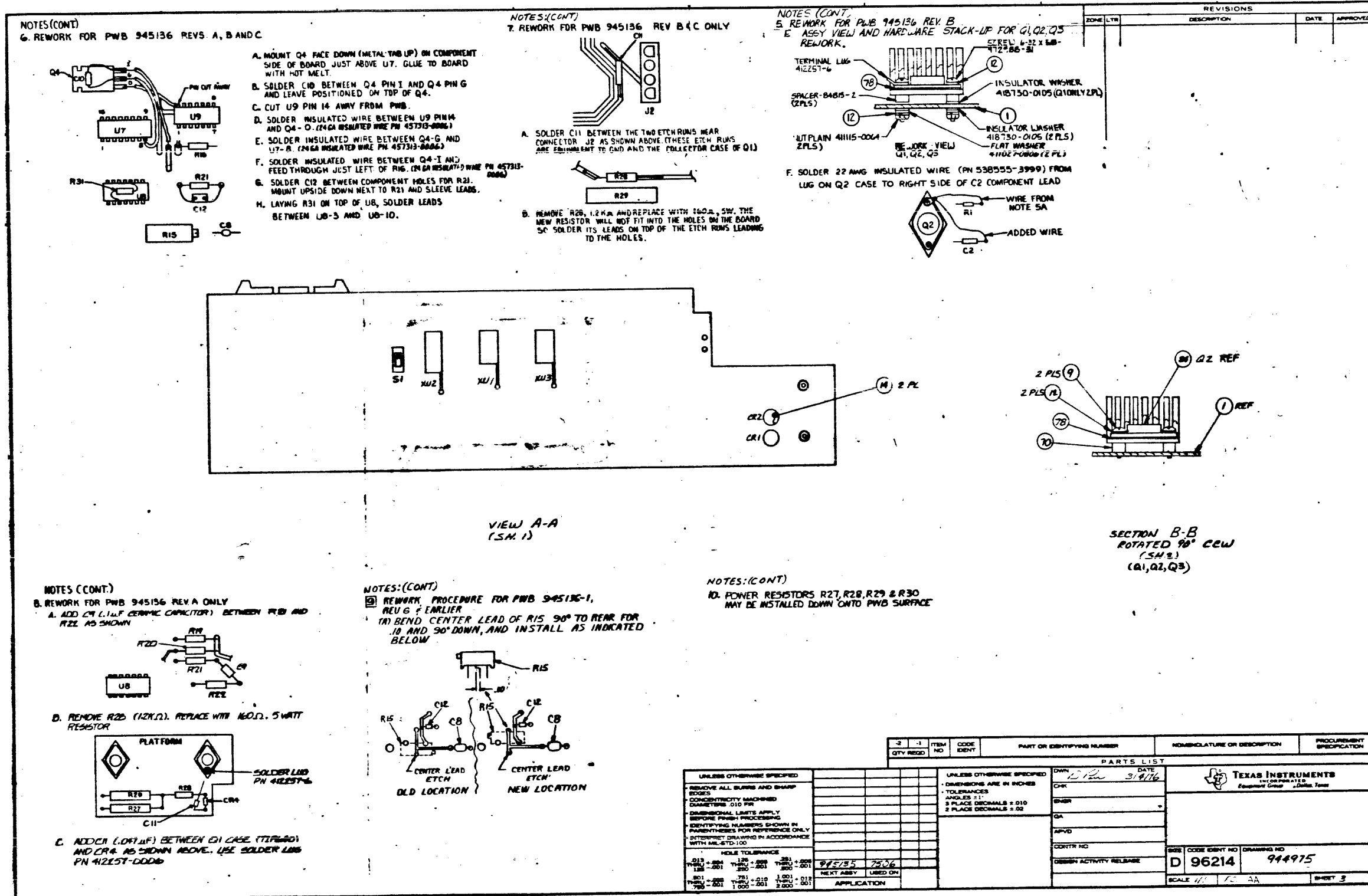
D. REMOVE DIODE MARKING FOR CR2 FROM COND. SIDE OF BOARD USING PROCESS 2 (RUBBER STAMP) REMARK DIODE SYMBOL



NOTES CONT.
 SH 3

ZONE	REV	DESCRIPTION	DATE	APPROVED
J		CN 417895 (A) U Comp (1) ADDED NOTES EF, G, T, (B) (2) UPDATED REV LEVEL BLK (3) ON LM ITEM 39 P1 WAS 972757-0003, ITEM 44 QTY WAS 2, ITEM 30 QTY WAS 5 (4) ADDED ITEMS 12, 13, 14, 15, 26 & 27	1-20-77	J. Red
K		CN 421974 (A) U Comp (1) QTY 3, NOTE B, REDRAWN PER EXT ENGR. CHANGES (2) LM ITEM 74 WAS PN 972759-50 (3) UPDATE REV LEVEL BLOCK	1/25/77	J. Red
L		CN 420966 (E) U Comp (1) LM, ITEM 57 WAS 972698-0005 (2) UPDATED REV LEVEL BLK	1/6/77	J. Red
M		CN 427149 (C) U Comp (1) LM, DELETED ITEM 46 (2) CHANGE PICTORIAL TO SHOW JUMPER (3) LM ITEM 47 QTY WAS 0001.000 (4) ADDED WASHER TO PICTORIAL (5) UPDATED REV LEVEL BLOCK	10-12-77	J. Red
N		CN 430021 (C) U Comp (1) ZNC, ADDED SN & PWB PIN TO FID (2) UPDATED REV LEVEL BLOCK	11-22-77	J. Red
P		CN 429310 (C) U Comp (1) DELETED ITEM 55 (2) ADDED ITEM 78 (3) ADDED (24 GA) TO NOTE 6D, 6E AND 6F (4) ADDED FLAT WASHER CALLOUT TO NOTE 5 (5) UPDATED REV LEVEL BLOCK	2-7-78	J. Red
R		CN 430061 (C) U Comp (1) DELETED ITEMS 56, 57, 58, 59 & 60 (2) UPDATED REV LEVEL BLK	3-31-78	J. Red
T		CN 430096 (C) U Comp (1) ADDED NOTE 9, SH2, ZNC 9 ADDED C12 TO FID (2) UPDATED REV LEVEL BLOCK	4-4-78	J. Red
U		CN 427083 (C) U Comp (1) RELOCATED C8 (R23 ON PICTORIAL (2) ADDED Q4, C10, C11, & R31 (3) ADDED FOR PWB 945136 REV B,C, D, TO NOTE 4C (4) UPDATED REV LEVEL BLOCK	6-22-78	J. Red
V		CN 428598 (E) U Comp (1) UPDATED REV LEVEL BLOCK	6-22-78	J. Red
W		CN 451905 (D) U Comp (1) UPDATED REV LEVEL BLOCK	3-26-79	J. Red
Y		CN 433524 (C) U Comp (1) NOTE (4) C WAS FOR PWB 945136 REV B,C (2) UPDATED REV LEVEL BLOCK	7-31-79	E. King
AA		CN 450543 (C) U Comp (1) CHANGED CASE SIZE OF R28 & R29 (2) NOTE 9 WAS REV E (3) ADDED NOTE 10 (4) UPDATED REV LEVEL BLOCK	3-20-80	J. Red

QTY	REV	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST						
UNLESS OTHERWISE SPECIFIED:				UNLESS OTHERWISE SPECIFIED:		
REMOVE ALL BURRS AND SHARP EDGES				DIMENSIONS ARE IN INCHES		
CONCENTRICITY MACHINED DIAMETERS: .010 P/R				TOLERANCES:		
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING				ANGLES: 1:1		
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY				3 PLACE DECIMALS ± 0.10		
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-120				2 PLACE DECIMALS ± .02		
HOLE TOLERANCE						
Ø	±.004	Ø.008	Ø.010	Ø.012	Ø.015	Ø.020
	±.001	±.002	±.003	±.004	±.005	±.007
APPROVED: [Signature]				DATE: 3/8/76		
DRAWN: [Signature]				BY: [Signature]		
CHECKED: [Signature]				DATE: [Signature]		
DESIGNED: [Signature]				DATE: [Signature]		
MANUFACTURED: [Signature]				DATE: [Signature]		
ASSEMBLED: [Signature]				DATE: [Signature]		
APPROVED: [Signature]				DATE: [Signature]		
PARTS LIST				SIZE CODE IDENT NO DRAWING NO		
D				96214 944975		
SCALE: 1				SHEET 2		



TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0944975-0001		REV AA7			
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945136-0001	PWB-PROM PROGRAMMING ADAPTER, TTL						
0002	REF	EA		0945137-9901	LOGIC DIAGRAM-PROM PROGRAMMING ADAPTER						
0003	REF	EA		0945168-9901	TEST PROCEDURE, PROM PROGRAMMING ADAPTER						
0004	REF	EA		0944929-9901	SPECIFICATIONS, PROM PROGRAMMER INTERFACE						
0005	00001.000	EA		0972137-0005	CONNECTOR, PC 50 PIN	BEI - 65433-005					
0005A					J3						
0006	00001.000	EA		0972423-0006	CONN, PCB HEADER, 4CKT, MALE						
0006A					J2						
0007	00002.000	EA		0972689-0002	SOCKET, 16 PIN, ZERO INSERTION FORCE						
0007A					XU1, XU3						
0008	00001.000	EA		0972689-0004	SOCKET, 20 PIN, ZERO INSERTION FORCE						
0008A					XU2						
0009	00006.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CKES						
0012	00006.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CKES	QPL - MS35333-71					
0014	00002.000	EA		0946646-0001	STANDOFF, MTG, LED						
0015	00001.000	EA		0996209-0001	SWITCH, SLIDE, PC MOUNT	C-K - 1101CQ					
0015A					S1						
0016	00001.000	EA		0222222-7404	NETWORK SN7404N						
0016A					U1						
0017	00001.000	EA		0222222-7406	NETWORK SN7406N						
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	SUB-ASSY, PROM PERSONALITY			
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506			
								PART NUMBER LM0944975-0001			
								REV AA7			

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 2 of		PART NUMBER LM0944975-0001		REV AA7			
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0017A					U9						
0018	00002.000	EA		0972749-0001	NETWORK, SN74LS08N						
0018A					U5, U6						
0019	00003.000	EA		0974674-0001	NETWORK SN75138N						
0019A					U2, U3, U4						
0020	00001.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0020A					U7						
0021	00001.000	EA		0972662-0001	NETWORK, SN72723N						
0021A					U8						
0023	00001.000	EA		0539795-0008	RES VAR CERMET 2.0 K OHMS 1/4 .75 WATT	BOU - 3069P-1-202					
0023A					R15						
0024	00001.000	EA		0537989-0001	REGULATOR, VOLTAGE 5VOLTS LM309K	NSC - LM309K					
0024A					Q2						
0025	00002.000	EA		0972946-0053	RES FIX 330 OHM 5% .25 W CARBON FILM	ROH - R-25					
0025A					R1, R4						
0026	00001.000	EA		0972946-0067	RES FIX 1.2K OHM 5% .25 W CARBON FILM	ROH - R-25					
0026A					R20						
0028	00001.000	EA		0972833-0029	RES, FIX 3.0K 10% 2.0WATT						
0028A					R30						
0029	00001.000	EA		0972946-0075	RES FIX 2.7K OHM 5% .25 W CARBON FILM	ROH - R-25					
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	SUB-ASSY, PROM PERSONALITY			
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								REV AA7			

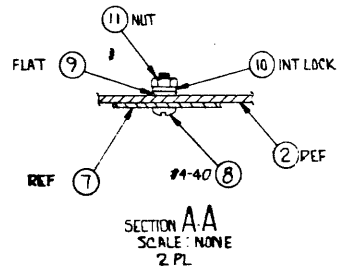
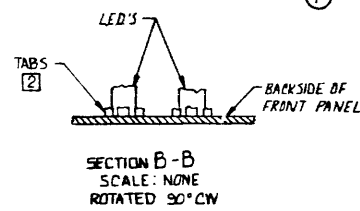
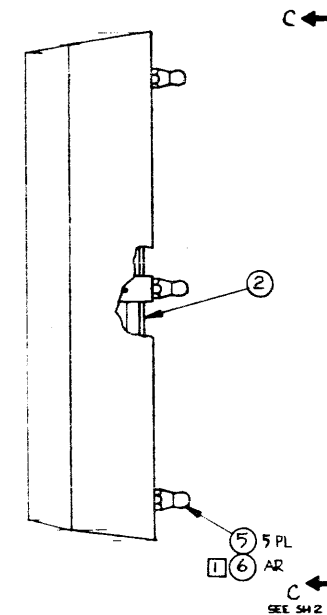
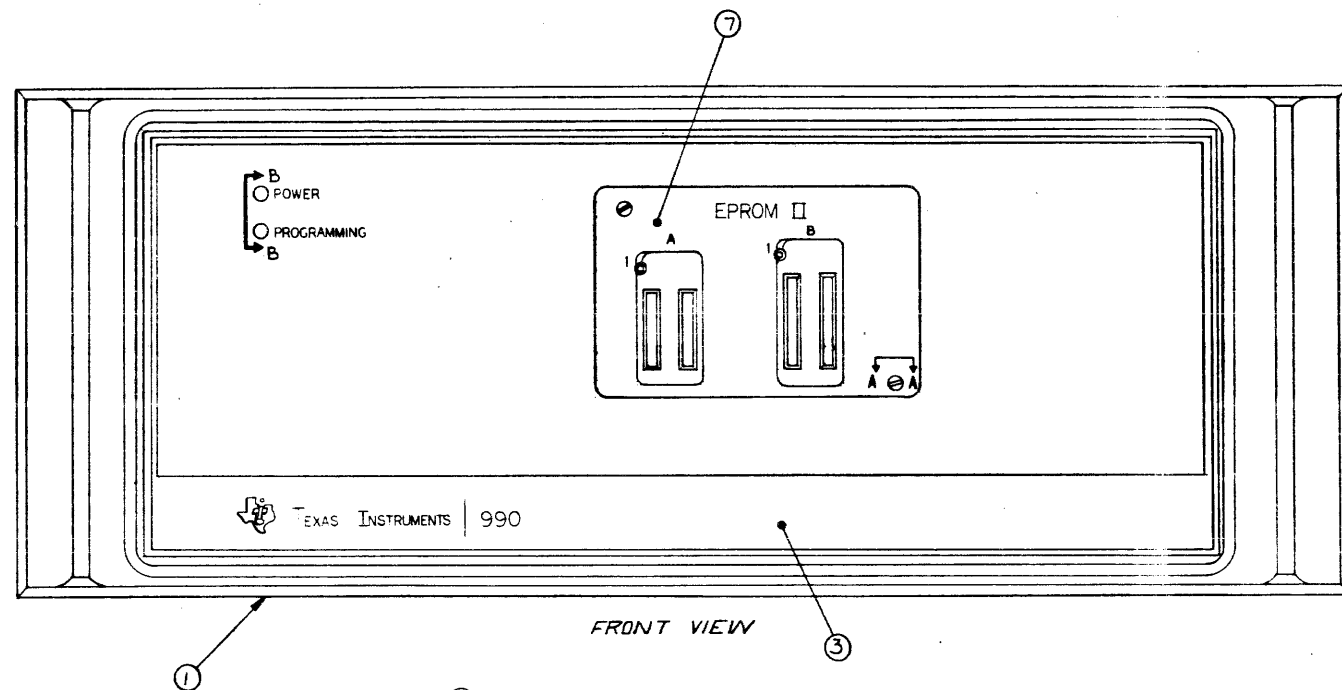
TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 3 of		PART NUMBER LM0944975-0001		REV AA7			
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0029A					R23						
0030	00006.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0030A					C3 THRU C7, C11						
0031	00002.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0031A					CRI, CR2						
0032	00012.000	EA		0972946-0079	RES FIX 3.9K OHM 5% .25 W CARBON FILM	ROH - R-25					
0032A					R2, R3, R5 THRU R14						
0033	00001.000	EA		0539370-0411	RES FIX FILM 1.87K OHM 1% .25 WATT	COR - NA55					
0033A					R17						
0034	00001.000	EA		0539370-0451	RES FIX FILM 4.87K OHM 1% .25 WATT	COR - NA55-100PPM/C					
0034A					R18						
0035	00001.000	EA		0539370-0453	RES FIX FILM 5.11K OHM 1% .25 WATT	COR - NA55					
0035A					R16						
0036	00001.000	EA		0539370-0463	RES FIX FILM 6.49K OHM 1% .25 WATT	COR - NA55					
0036A					R22						
0037	00001.000	EA		0539370-0480	RES FIX FILM 9.76K OHM 1% .25 WATT	COR - NA55					
0037A					R21						
0038	00001.000	EA		0972946-0047	RES FIX 180 OHM 5% .25 W CARBON FILM	ROH - R-25					
0038A					R19						
0039	00001.000	EA		0538317-0023	CAP FIXED 68PF 5% MICA DIELECTRIC	81349L-MR05E680JPDN					
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	SUB-ASSY, PROM PERSONALITY			
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0944975-0001			
								REV AA7			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/27/78		PAGE 4 of		PART NUMBER LM0944975-0001		REV AA0	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0039A					C8						
0040	00001.000	EA		0972924-0017	CAP FIX TANT SOLID 1.0 MFD 10 % 35 VOLT	SPR	-150D105X9035A				
0040A					C2						
0041	00001.000	EA		0972924-0005	CAP FIX TANT SOLID 4.7 MFD 10 % 10 VOLT	QPL	-M39003/1-2254				
0041A					C1						
0042	00001.000	EA		0972423-0001	CONN, PCB HEADER 2CKT						
0042A					J1						
0044	00001.000	EA		0972947-0067	RES FIX 1.2K OHM 5% .5 W CARBON FILM	ROH	- R-50				
0044A					R24						
0045	00001.000	EA		0972934-0013	DIODE, 1N750A 10.0V 5% SIL VOLT REG	QPL	- 1N750A				
0045A					CR3						
0047	00000.200	FT		0538347-5099	WIRE HOOKUP B-18 AWG 19 STR BK/WH	JUD	- HHQ203				
0053	00002.000	EA		0800482-0007	HEATSINK, XISTON						
0062	00001.000	EA		0972803-0001	TRANSISTOR TIP640 DARLINGTON, POWER NPN	TI	- TIP640				
0062A					Q1						
0063	00001.000	EA		0972959-0001	TRANSISTOR, 2N3055 NPN 70V 115M TO-3	TI	- 2N3055				
0063A					Q3						
0064	00001.000	EA		0972480-0004	HEATSINK, CIRCUIT BOARD (TO-3)-1.25	THR	--6J04-B-2				
0065	00001.000	EA		0972687-0057	RES 20 OHM 5% 10W FIX, POWER WIREWOUND						
0065A					R29						
DESIGNED BY		DATE	CHKD BY	DATE	DESIGN ENGINEER	DATE	TITLE	SUB-ASSY, PROM PERSONALITY			
APPROVED BY		DATE	APPROVED PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0944975-0001			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/27/78		PAGE 5 of		PART NUMBER LM0944975-0001		REV AA0	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0066	00001.000	EA		0972687-0080	RES 68 OHM 5% 10W FIX, POWER WIREWOUND						
0066A					R27						
0067	00001.000	EA		0418036-0011	DIODE, 1N972B						
0067A					CR4						
0068	00001.000	FT		0966760-2896	WIRE, TWISTED PAIR #28 WHT/BLU IPVC	UL	- 1472 7STR ULG				
0070	00006.000	EA		0803153-0029	NUT, SLEEVE, SHLDR, BRASS, 6-32X.125						
0071	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0072	00001.000	EA		0972757-0037	CAP FIX CER 0.1MF 10% 50V						
0072A					C9						
0073	00001.000	EA		0972872-0009	NETWORK LM 340-05T	NSC - LM 340-05T					
0073A					Q4						
0074	00001.000	EA		0972763-0030	CAP FIXED .27 UF 50 VOLTS	UC -C53C2742					
0074A					C10						
0075	00001.000	EA		0972942-0124	RES FIX 160 OHMS 5% 5 WATT WIREWOUND						
0075A					R28						
0076	00001.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0076A					R31						
0077	00001.000	EA		0972929-0369	CAP FIX CERAMIC 27.0 PF 10 % 200 V	QPL	-M39014/01-1369				
0077A					C12						
0078	00003.000	EA		0802573-0007	INSULATOR, PLATE	018565-00-11-4511-166					
DESIGNED BY		DATE	CHKD BY	DATE	DESIGN ENGINEER	DATE	TITLE	SUB-ASSY, PROM PERSONALITY			
APPROVED BY		DATE	APPROVED PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0944975-0001			

- NOTES: UNLESS OTHERWISE SPECIFIED:
- 1 APPLY ITEM 6 TO ITEM 5 THREAD AREA WHEN INSTALLING INTO ITEM 1
 - 2 CUT OFF PLASTIC TABS ON BACK SIDE OF FRONT PANEL USING SIDECUTTERS OR OTHER SUITABLE INSTRUMENT

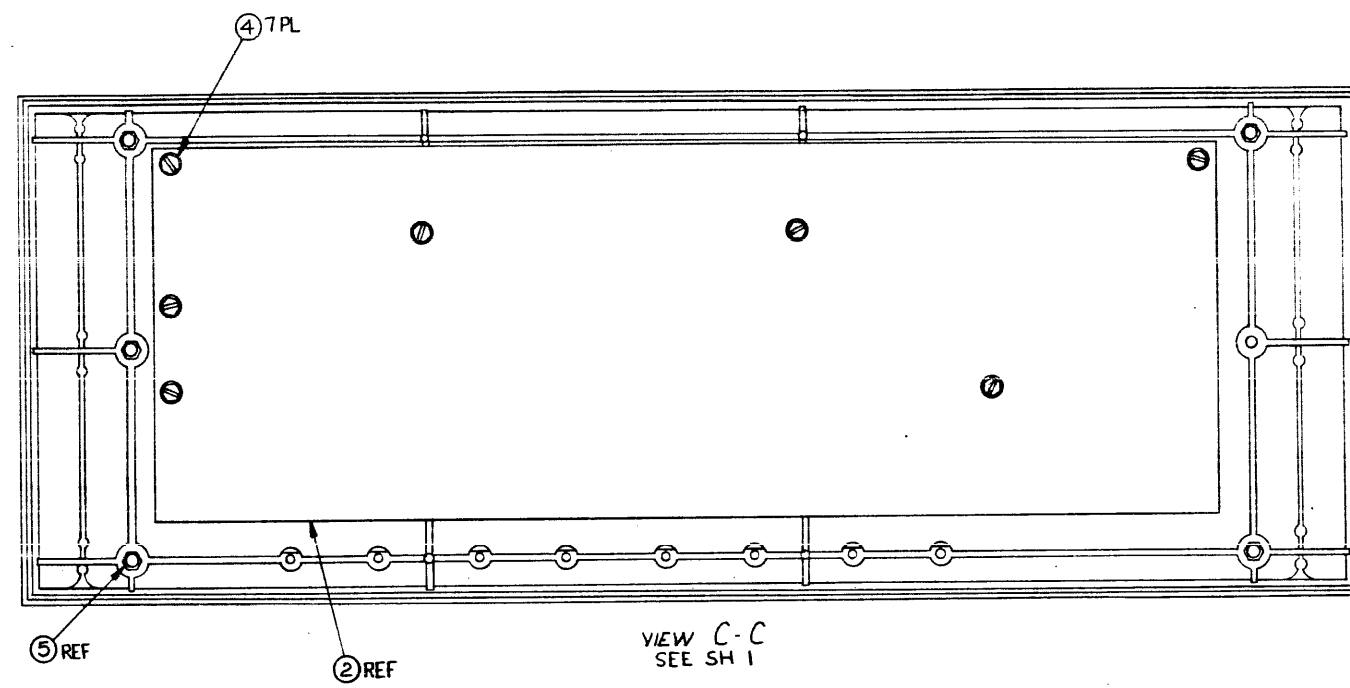
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN 435522 (C) G.S. Sub. (1) ITEM 7 PN WAS 937363-0001	1-8-80	<i>[Signature]</i>



REV STATUS REV A
OF SHEETS SHEET 112

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
			PARTS LIST		
			UNLESS OTHERWISE SPECIFIED: • DIMENSIONS ARE IN INCHES • TOLERANCES ARE ANGLES ±1° • 3 PLACE DECIMALS = .010 • 2 PLACE DECIMALS = .02 • INTERPRET DRAWING PER MIL-D-1000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS ±.004 F.M. • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHESES INFO FOR REF ONLY		
			HOLE TOLERANCE .012 THRU .004 1/28 .125 THRU .001 200 .501 THRU .001 500 .501 THRU .001 1.001 .750 THRU .001 1.000 1.000 THRU .001 2.000		
93734	7041		ADAPTER, PROGRAMMING, EPROM II		
			D.96214		

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES



TEXAS INSTRUMENTS CORPORATION DALLAS, TEXAS	DATE	9-27-70	SIZE	D	ISSUE NO.	96214	REVISION NO.	937362	REV
	ISSUE DATE		SCALE	1/1	SHEET		2		



TEXAS INSTRUMENTS
INCORPORATED

DATE 12/17/79

LIST of MATERIAL

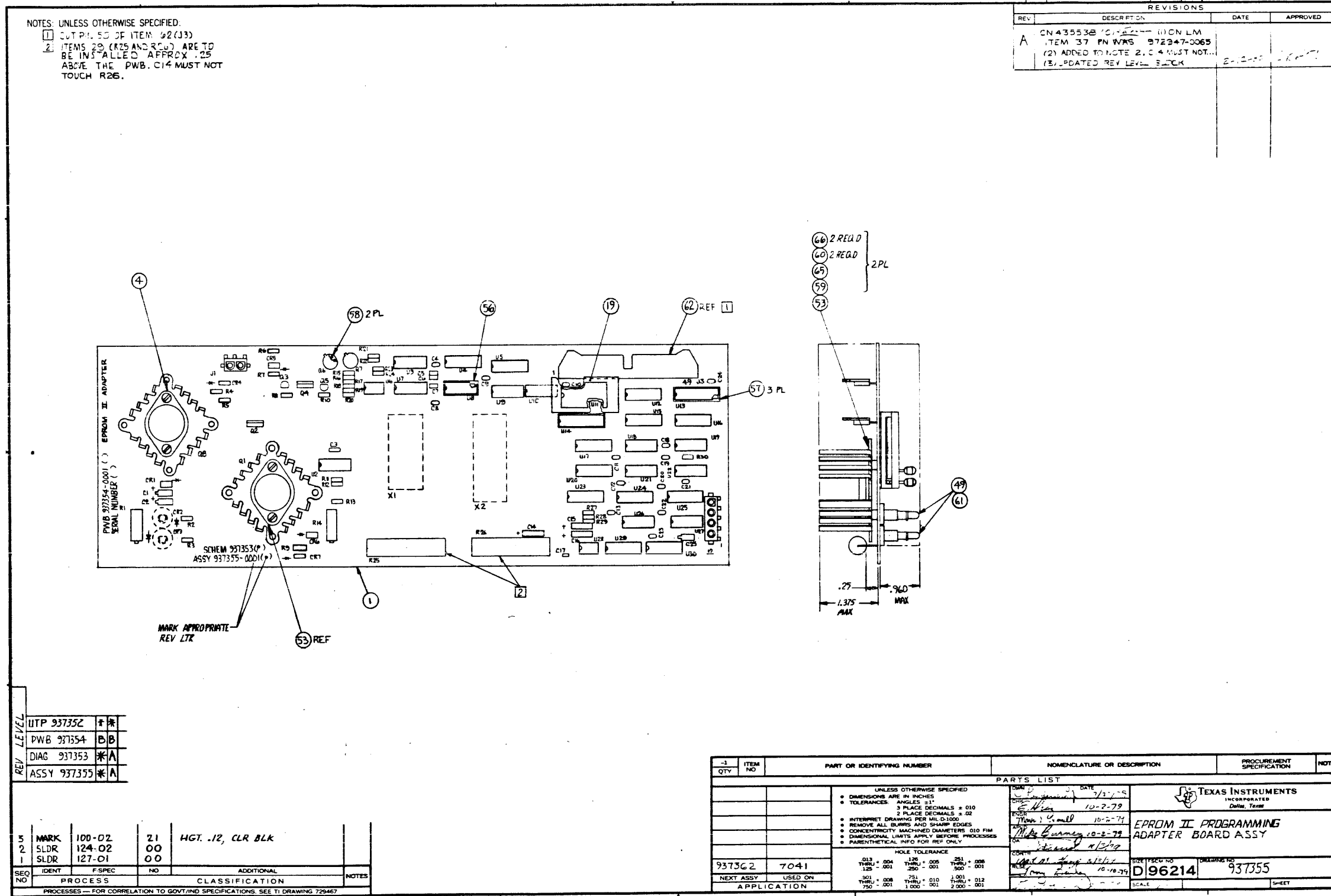
PAGE 1 of

PART NUMBER
LM 0937362-0001 REV
A

ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	0001.000	EA		0945156-0001	FRONT PANEL, PROM PROGRAMMER	
0002	0001.000	EA		0937355-0001	EPROM II PROG ADAPTER BOARD ASSY	
0003	0001.000	EA		0945157-0001	OVERLAY, PROM PROGRAMMER	
0004	0007.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HX MSR HD	
0005	0005.000	EA		0802235-0002	STUD, BALL-FRICTION CATCH	
0006	0000.150	EA		0996639-0001	ADHESIVE, EPOXY, 2-PART KIT, CLEAR	004347-608
0007	0001.000	EA		0937376-0001	COVER, EPROM II	
0008	0002.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES	
0009	0002.000	EA		0418730-0103	WASHER, NO. 4 X .125, PLASTIC	QPL - NAS1515H04L
0010	0002.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - MS35333-70
0011	0002.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS -35649-244

DRAFTSMAN	DATE	CHECKED BY	DATE	DESIGN ENGINEER	DATE	TITLE
		<i>J. R. ...</i>	12-18-79			ADAPTER, PROGRAMMING, EPROM II
APP'D MFG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						7091

PART NUMBER	REV
LM 0937362-0001	A



TEXAS INSTRUMENTS INCORPORATED		DATE 02/05/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0937355-0001		REV A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0937354-0001	PMB, EPROM II PROGRAMMING ADAPTER						
0002	0001.000	EA		0222222-7406	NETWORK SN7406N						
0002A					U3						
0003	0001.000	EA		0222225-2311	NETWORK LM311N,SN72311P	SEE	-	TI	DRAWING		
0003A					U6						
0004	0001.000	EA		0537989-0001	IC,LM309K,5 VOLT REGULATOR	SEE	TI-	DRAWING			
0004A					Q8						
0005	0002.000	EA		0801383-0001	NETWORK SN74LS151N						
0005A					U17 U20						
0006	0001.000	EA		0972188-0001	NETWORK,NE555V,MONOLITHIC TIMING,LINEAR	ST	-	NE555V			
0006A					U28						
0007	0001.000	EA		0972662-0001	NETWORK,SN72723N						
0007A					U2						
0008	0003.000	EA		0572749-0001	NETWORK, SN74LS08N						
0008A					U9 U10 U26						
0009	0003.000	EA		0972787-0003	NETWORK SN74LS367N						
0009A					U12 U15 U16						
0010	0001.000	EA		0972810-0001	NETWORK-SN74LS221N						
0010A					U23						
0011	0002.000	EA		0972900-7109	NETWORK SN74LS109N	TI	-	SN74LS109N			
DRAFTSMAN: <i>J. R. King</i> DATE: 2-6-80 DATE: 2-6-80 PROJECT NO: 7091 TITLE: EPROM II PROG ADAPTER BOARD ASSY PART NUMBER: LM 0937355-0001 REV: A											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/05/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0937355-0001		REV A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0011A					U29 U30						
0012	0002.000	EA		0972900-7112	NETWORK SN74LS112N	TI	-	SN74LS112N			
0012A					U4 U25						
0013	0001.000	EA		0972900-7197	NETWORK SN74LS197N	TI	-	SN74LS197N			
0013A					U18						
0014	0003.000	EA		0972900-7404	NETWORK SN74LS04N						
0014A					U7 U8 U19						
0015	0001.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-	SN74LS32N			
0015A					U27						
0016	0002.000	EA		0972900-7451	NETWORK SN74LS51N	TI	-	SN74LS51N			
0016A					U21 U22						
0017	0001.000	EA		0996089-0004	IC,SN74LS244N LINE DRIVER	-SN74LS244N					
0017A					U13						
0018	0001.000	EA		0996420-0002	IC,SN74LS374N EDGE-TRIGGERED FLIP-FLOPS	001295-	-	SN74LS374N			
0018A					U14						
0019	0001.000	EA		0937344-0001	FPLA ADAPTER, EPROM II MULTIPLEXER						
0019A					U11						
0020	0001.000	EA		0539370-0385	RES FIX FILM 1.00K OHM 1/8 .25 WATT	COR	-	NA55			
0020A					R13						
0021	0001.000	EA		0539370-0422	RES FIX FILM 2.43K OHM 1/8 .25 WATT	COR	-	NA55			
DRAFTSMAN: DATE: 2-6-80 DATE: 2-6-80 PROJECT NO: 7091 TITLE: EPROM II PROG ADAPTER BOARD ASSY PART NUMBER: LM 0937355-0001 REV: A											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/05/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0937355-0001		REV A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021A					R12						
0022	0001.000	EA		0539370-0318	RES FIX FILM 200 OHM 1/8 .25 WATT	COR	-	NA55			
0022A					R4						
0023	0001.000	EA		0539370-0340	RES FIX FILM 340 OHM 1/8 .25 WATT	COR	-	NA55			
0023A					R6						
0024	0001.000	EA		0539370-0376	RES FIX FILM 806 OHM 1/8 .25 WATT	COR	-	NA55			
0024A					R7						
0025	0001.000	EA		0539795-0007	RES VAR CERMET 1.0 K OHMS 10 1/8 .75 WATT	BOU	-	3069P-1-102			
0025A					R14						
0026	0001.000	EA		0800118-0008	RESISTOR 1.0KOHMS DIL PULL UP 16 PINS	BEC	-	8981R1.0K			
0026A					U24						
0027	0001.000	EA		0972037-1600	NETWORK,RES 68 OHM 2% 16PIN BELEMENT						
0027A					U5						
0028	0001.000	EA		0972937-0444	RESISTOR, 2.05 M-OHMS						
0028A					R27						
0029	0002.000	EA		0972687-0048	RES,FXD,PWR 5%,10 WATTS, 10 OHMS	012463-	SEE	TI	DWG		
0029A					R25 R26						
0030	0001.000	EA		0972946-0017	RES FIX 10.0 OHM 5 1/8 .25 W.CARBON FILM	ROH	-	R-25			
0030A					R11						
0031	0003.000	EA		0972946-0053	RES FIX 330 OHM 5 1/8 .25 W CARBON FILM	ROH	-	R-25			
DRAFTSMAN: DATE: 2-6-80 DATE: 2-6-80 PROJECT NO: 7091 TITLE: EPROM II PROG ADAPTER BOARD ASSY PART NUMBER: LM 0937355-0001 REV: A											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/05/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0937355-0001		REV A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0031A					R2 R3 R8						
0032	0002.000	EA		0972946-0061	RES FIX 680 OHM 5 1/8 .25 W CARBON FILM	ROH	-	R-25			
0032A					R5 R10						
0033	0001.000	EA		0972946-0057	RES FIX 470 OHM 5 1/8 .25 W CARBON FILM	ROH	-	R-25			
0033A					R15						
0034	0007.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	-	R-25			
0034A					R16 R17 R18 R22 R23 R24 R30						
0035	0001.000	EA		0972946-0069	RES FIX 1.5K OHM 5 1/8 .25 W CARBON FILM	ROH	-	R-25			
0035A					R19						
0036	0002.000	EA		0972946-0083	RES FIX 5.6K OHM 5 1/8 .25 W CARBON FILM	ROH	-	R-25			
0036A					R20 R21						
0037	0001.000	EA		0972947-0079	RES FIX 3.9K OHM 5% .5 W CARBON FILM	ROH	-	R-50			
0037A					R9						
0038	0002.000	EA		0972946-0095	RES FIX 18K OHM 5% .25 W CARBON FILM	ROH	-	R-25			
0038A					R28 R29						
0039	0002.000	EA		0419051-0102	CAP FIX FILM FOIL .001 UF 5% 200VDC	TRW	-	663UH			
0039A					C15 C16						
0040	0001.000	EA		0419051-0223	CAP FIX FILM FOIL .022 UF 5% 200VDC	TRW	-	663UH			
0040A					C14						
0041	0001.000	EA		0539795-0008	RES VAR CERMET 2.0 K OHMS 10 1/8 .75 WATT	BOU	-	3069P-1-202			
DRAFTSMAN: DATE: 2-6-80 DATE: 2-6-80 PROJECT NO: 7091 TITLE: EPROM II PROG ADAPTER BOARD ASSY PART NUMBER: LM 0937355-0001 REV: A											

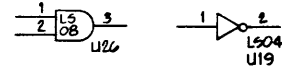
TEXAS INSTRUMENTS INCORPORATED		DATE 02/05/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 0937355-0001		REV. A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0041A					R1						
0042	00002.000	EA		0972753-0020	CAP., 1000 PF, 2%, 25VDC						
0042A					C3 C21						
0043	00001.000	EA		0972759-0013	CAP FIXED .01 UF +80-20% 25 VOLTS	UC	-C53D1037				
0043A					C17						
0044	00013.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0044A					C4 C8 C9 C10 C11 C12 C13						
0044B					C18 C19 C20 C22 C23 C24						
0045	00001.000	EA		0972924-0001	CAP FIX TANT SOLID 4.8 MFD 10 % 6 VOLT	QPL	-M39003/1-2242				
0045A					C25						
0046	00002.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT	QPL	-M39003/1-2283				
0046A					C1 C2						
0047	00003.000	EA		0972753-0001	CAP., 27PF, 2%, 25VDC						
0047A					C5 C6 C7						
0048	00003.000	EA		0539468-0002	DIODE, 1A4002 1AMP 100PIV RECTIFIER	TI	- IN4002				
0048A					CR1 CR5 CR6						
0049	00002.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0049A					CR2 CR3						
0050	00001.000	EA		0972934-0001	DIODE, 1N746A 3.3 V 5% SIL VOLT REG	QPL	- 1N746A				
0050A					CR4						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE EPROM II PROG ADAPTER BOARD ASSY											
APPRO MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV. LM 0937355-0001 A											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/05/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 0937355-0001		REV. A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0051	00001.000	EA		0972934-0013	DIODE, 1N758A 10.0V 5% SIL VOLT REG	QPL	- 1N758A				
0051A					CR7						
0052	00002.000	EA		0972572-0001	TRANSISTOR, TIP120 NPN SILICON DARLINGTON TI-	- TIP 120					
0052A					Q2 Q4						
0053	00001.000	EA		0972803-0001	TRANSISTOR TIP640 DARLINGTON, POWER NPN TI	- TIP640					
0053A					Q1						
0054	00002.000	EA		0972057-0001	TRANSISTOR-A5T2222 NPN SILICON	TI-	-A5T2222				
0054A					Q3 Q5						
0055	00002.000	EA		0972953-0001	TRANSISTOR, 2N4036 PNP	RCA	- 2N4036				
0055A					Q6 Q7						
0056	00001.000	EA		2210188-0002	SOCKET, LOW PROFILE, DIP, 14 PINS	003612-DILB14P-108					
0056A					XU8						
0057	00003.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-DILB20P-108					
0057A					XU11 XU13 XU14						
0058	00002.000	EA		0232583-0025	TO-5 MOUNTING PAD, 4-LEADS, TEFLON	SEE TI- DRAWING					
0059	00002.000	EA		0802373-0007	INSULATOR, PLATE	018565-60-11-4511-146					
0060	00004.000	EA		0803153-0029	NUT, SLEEVE, SHLDR, BRASS, 6-32X.125						
0061	00002.000	EA		0946646-0001	STANDOFF, MTG, LED						
0062	00001.000	EA		0972137-0005	CONNECTOR, PC 50 PIN	081 - 65483-005					
0062A					J3						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE EPROM II PROG ADAPTER BOARD ASSY											
APPRO MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV. LM 0937355-0001 A											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/05/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM 0937355-0001		REV. A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0063	00001.000	EA		0972423-0001	CONN, PCB HEADER 2CKT						
0063A					J1						
0064	00001.000	EA		0972423-0006	CONN, UNIV PWB MTD, 4 CIRCUIT						
0064A					J2						
0065	00002.000	EA		0972480-0004	HEATSINK, CIRCUIT BOARD (TO-3)-1.25	THR	-6004-B-2				
0066	00004.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRCS						
0067	00001.000	EA		0996779-0006	SKT, DIP, ZERO INSERTION FORCE, 24 LEADS	019613-SEE DRAWING					
0067A					X1						
0068	00001.000	EA		0996779-0007	SKT, DIP, ZERO INSERTION FORCE, 28 LEADS	019613-SEE DRAWING					
0068A					X2						
0069	REF	EA		0937353-9901	LOGIC, EPROM II PROGRAMMING ADAPTER						
0070	REF	EA		0937352-9901	UNIT TEST PROC, EPROM II PROG ADAPTER						
0071	REF	EA		0937351-9901	SPECIFICATION, EPROM II PROG ADAPTER						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE EPROM II PROG ADAPTER BOARD ASSY											
APPRO MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV. LM 0937355-0001 A											

NOTES: UNLESS OTHERWISE SPECIFIED:

1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. VCC IS APPLIED TO PIN 14 OF ALL 14 PIN IC'S, PIN 16 OF ALL 16 PIN IC'S, PIN 20 OF ALL 20 PIN IC'S, PIN 24 OF ALL 24 PIN IC'S, PIN 28 OF ALL 28 PIN IC'S.
3. GROUND IS APPLIED TO PIN 7 OF ALL 14 PIN IC'S, PIN 8 OF ALL 16 PIN IC'S, PIN 10 OF ALL 20 PIN IC'S, PIN 12 OF ALL 24 PIN IC'S, PIN 14 OF ALL 28 PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



L504 AND L508 = DEVICE TYPE
 1, 2 AND 3 = PIN NUMBERS
 U26 AND U19 = REFERENCE DESIGNATOR

5. RESISTANCE VALUES ARE IN OHMS.
6. RESISTORS ARE 1/4 WATT, 5%.

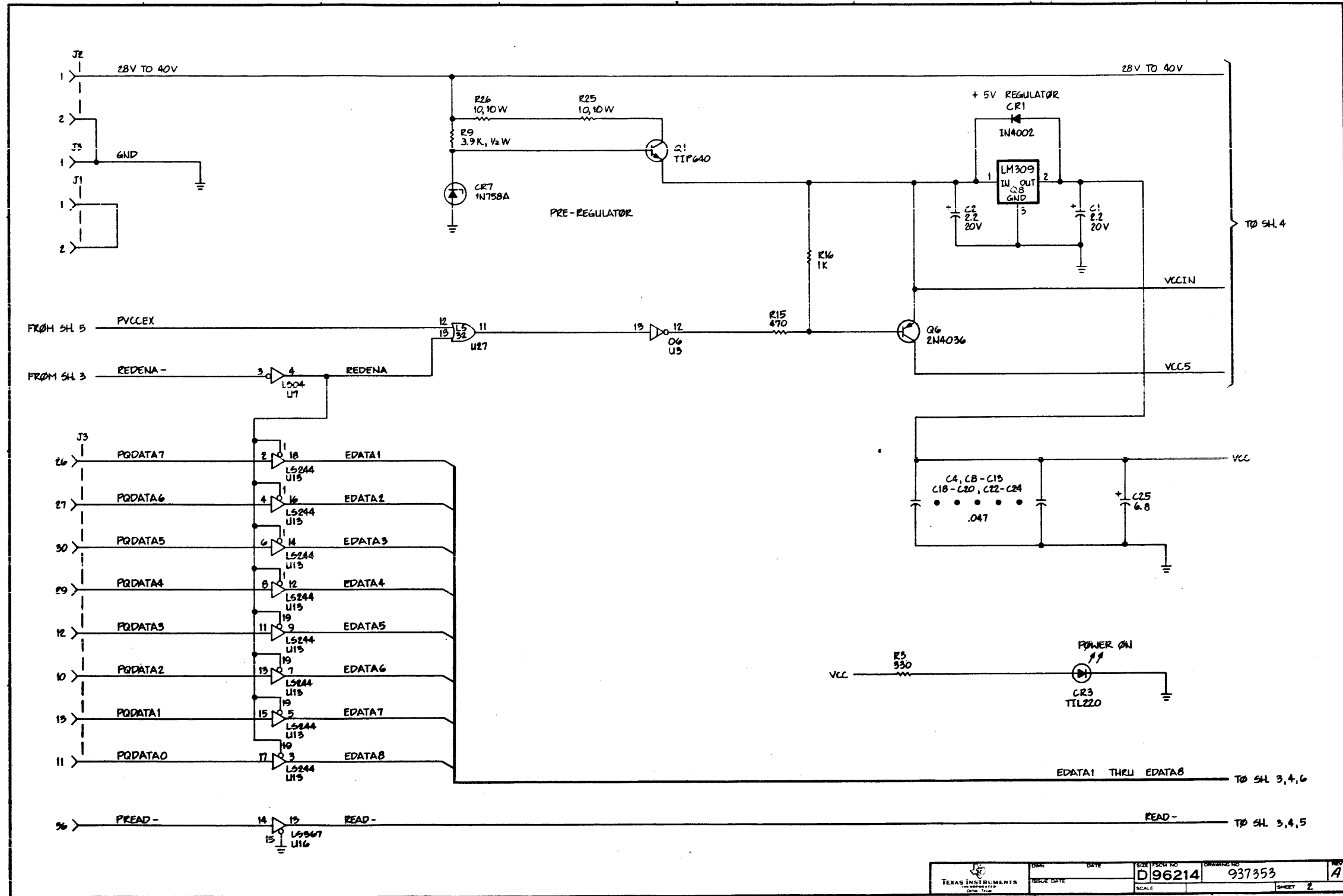
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN435307(C) <i>Autoweld</i>	2-8-80	<i>J.F.</i>

REV. STATUS OF SHEETS	REV.	A	A	*	*	*	*
SH.	1	2	3	4	5	6	7

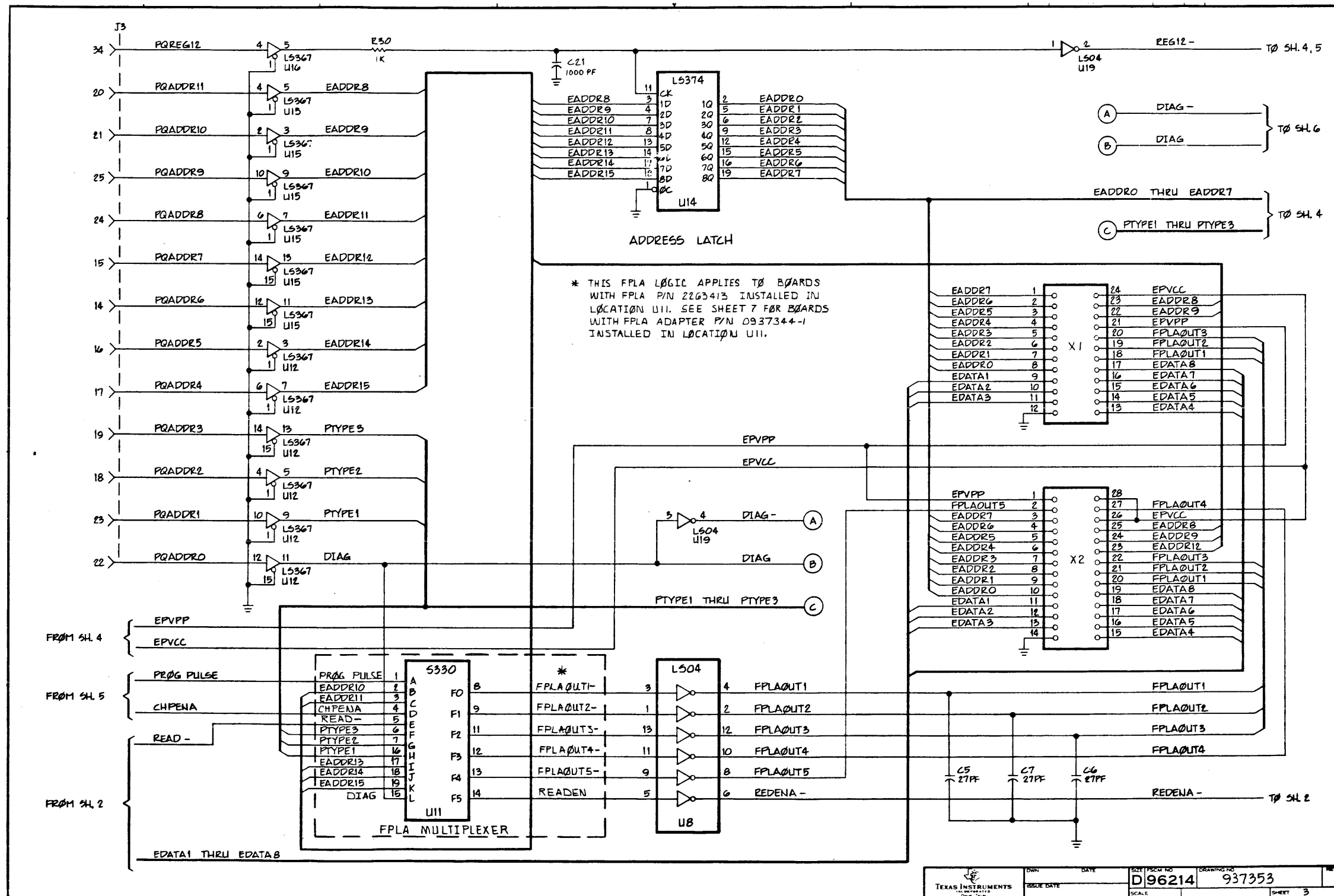
SEQ NO	IDENT	F.SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES

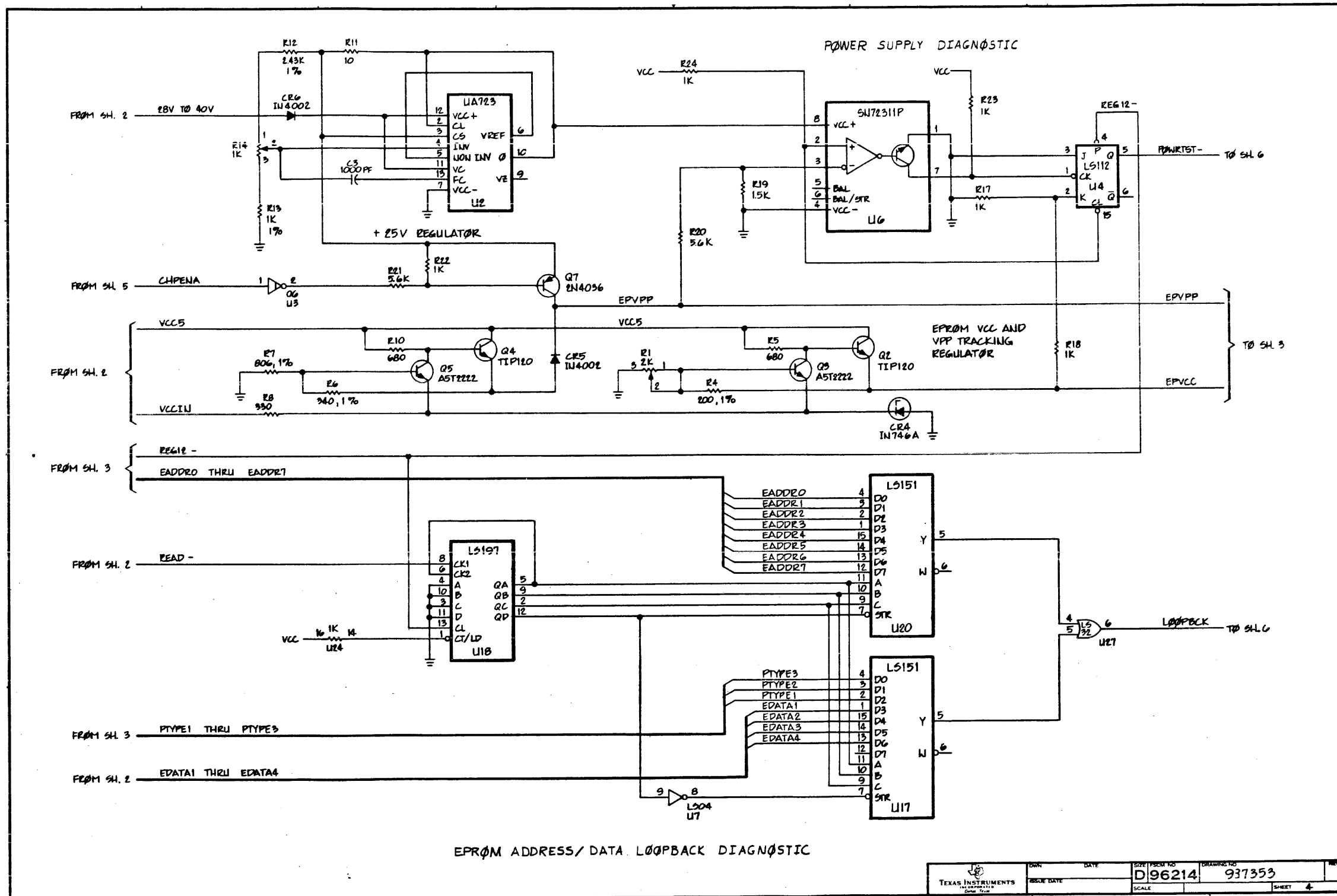
PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS SEE TI DRAWING 729467

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
UNLESS OTHERWISE SPECIFIED:			DATE		
• DIMENSIONS ARE IN INCHES			AUGUSTINE VELA 6/27/79		
• TOLERANCES ANGLES 1°			C. KEELER 9-27-79		
• 3 PLACE DECIMALS ± .010			TECOR 4-2-77		
• 2 PLACE DECIMALS ± .02			WIDE EXHIBIT 10-3-79		
• INTERPRET DRAWING PER MIL-D-1000			HOLE TOLERANCE		
• REMOVE ALL BURRS AND SHARP EDGES			.013 + .004		
• CONCENTRICITY MACHINED DIAMETERS .010 FIM			.126 + .005		
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES			.251 + .006		
• PARENTHESES INFO FOR REF ONLY			.125 - .001		
			.250 - .001		
			.501 + .008		
			.751 + .010		
			1.000 - .001		
			1.000 - .001		
			2.000 - .001		
APPLICATION			DRAWING NO		
93755 704			D 96214		
NEXT ASSY USED ON			DRAWING NO		
			937353		
			SCALE N.NE		
			SHEET 1 OF 7		



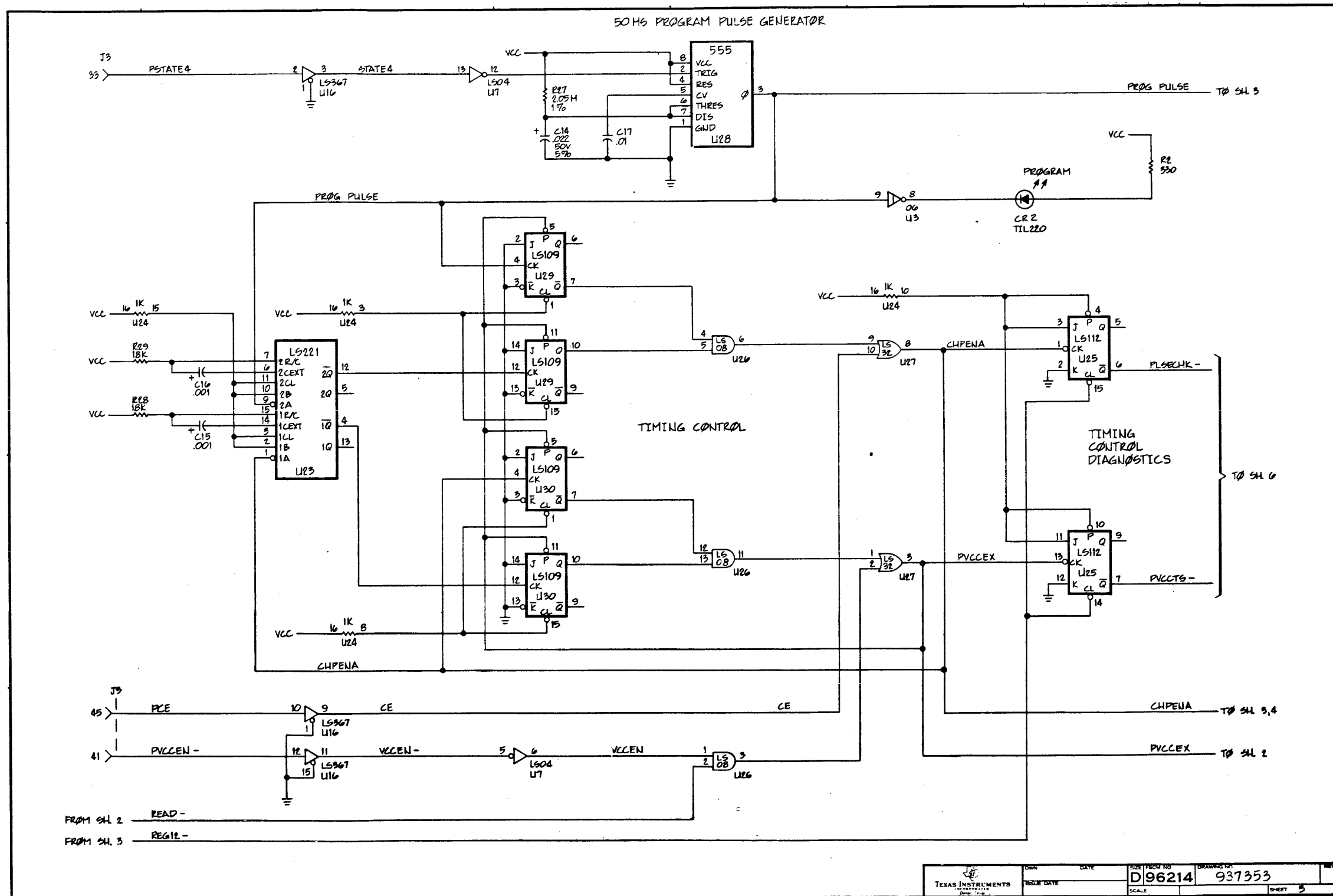
 TEXAS INSTRUMENTS <small>DAVIS CAMPUS</small>	DATE: _____ ISSUE DATE: _____	SIZE / SHEET NO: D96214	DRAWING NO: 937353	REV: A
	SCALE: _____	SHEET: 2		



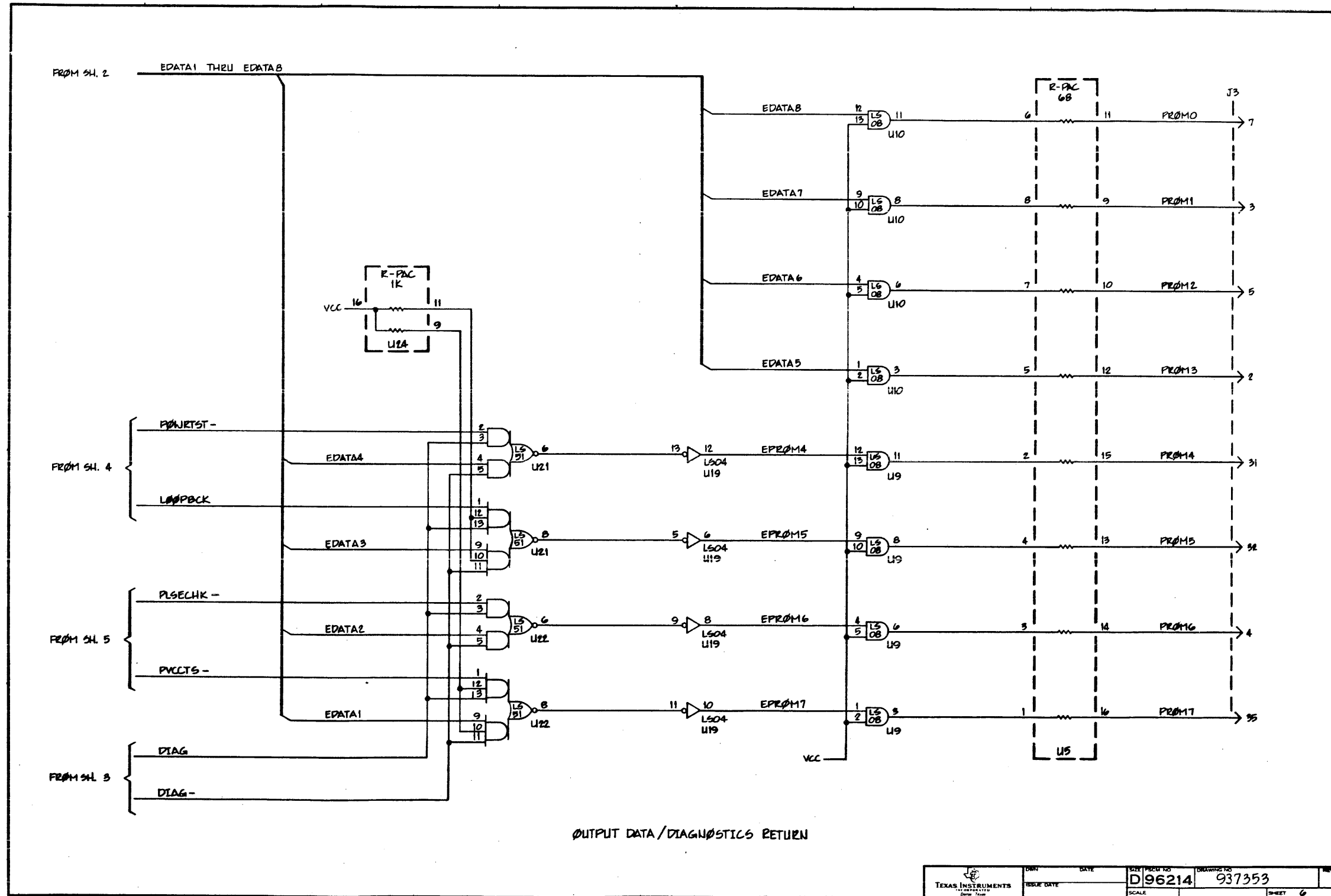


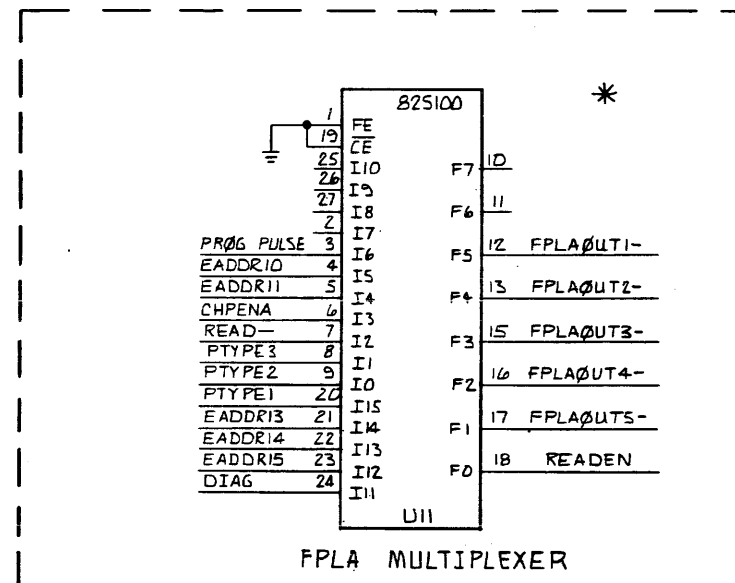
EPROM ADDRESS/DATA LOOPBACK DIAGNOSTIC

TEXAS INSTRUMENTS DALLAS, TEXAS	DATE	ISSUE NO.	DRAWING NO.	REV.
	ISSUE DATE	D 96214	937353	
SCALE		SHEET		4



 TEXAS INSTRUMENTS <small>DAVIDSON ROAD</small> <small>DALLAS, TEXAS 75243</small>	DATE	DATE	SIZE (FROM NO)	DRAWING NO
	ISSUE DATE		D96214	937353
	SCALE			SHEET 5





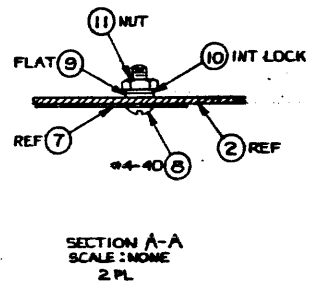
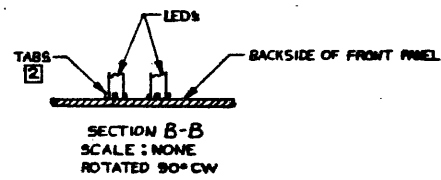
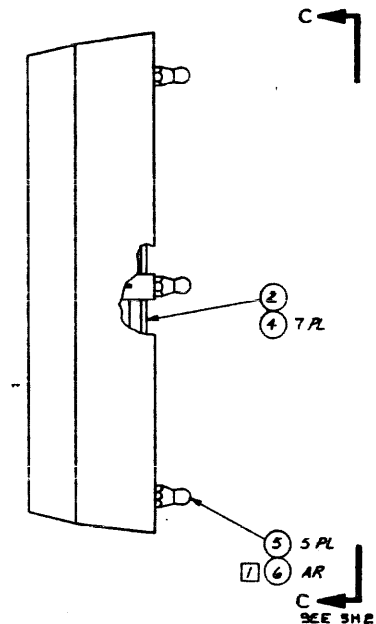
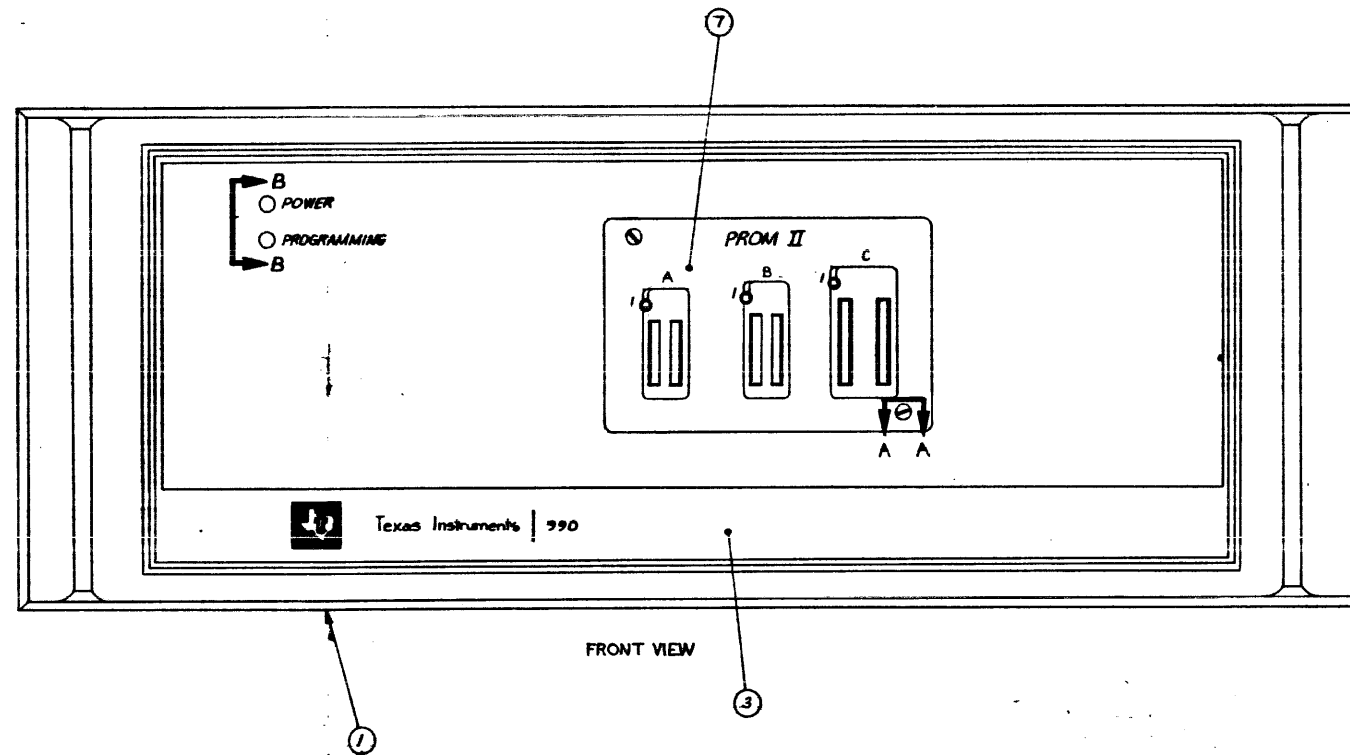
FPLA MULTIPLEXER

* THIS FPLA LOGIC APPLIES TO BOARDS WITH FPLA ADAPTER P/N 937344-1 INSTALLED IN LOCATION U11.

TEXAS INSTRUMENTS CORPORATION DALLAS, TEXAS	DATE	SIZE	FRONT NO.	DRAWING NO.	REV.
	SCALE	DWG. DATE	D96214	937353	
					SHEET 7

NOTES: UNLESS OTHERWISE SPECIFIED:
 1 APPLY ITEM 4 TO ITEM 5 THREAD AREA WHEN INSTALLING INTO ITEM 1
 2 CUT OFF PLASTIC TABS ON BACKSIDE OF FRONT PANEL USING SIDE CUTTERS OR OTHER SUITABLE INSTRUMENT

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ON 435539 (C) (1) ON LM PN ITEM 3, 7 & 9 WAS 937377-1, 9373 66-1 & 4/66 22-11 RESP (2) SHI ADDED SECTION A-A & B-B REFERENCE MARKS & DETAIL (3) ADDED NOTE 2 (4) DELETED BALLOONS 8, 9, 10 & 11 IN Z C: 5, 6 & D: 5, 6 ON SHI (5) ADDED FRONT VIEW LABEL TO SHI Z: BS (6) ADDED VIEW C-C REFERENCE MARKS TO SHI (7) ADDED SH 2 WITH VIEW C-C DETAIL	3-20-80	J.R. [Signature]

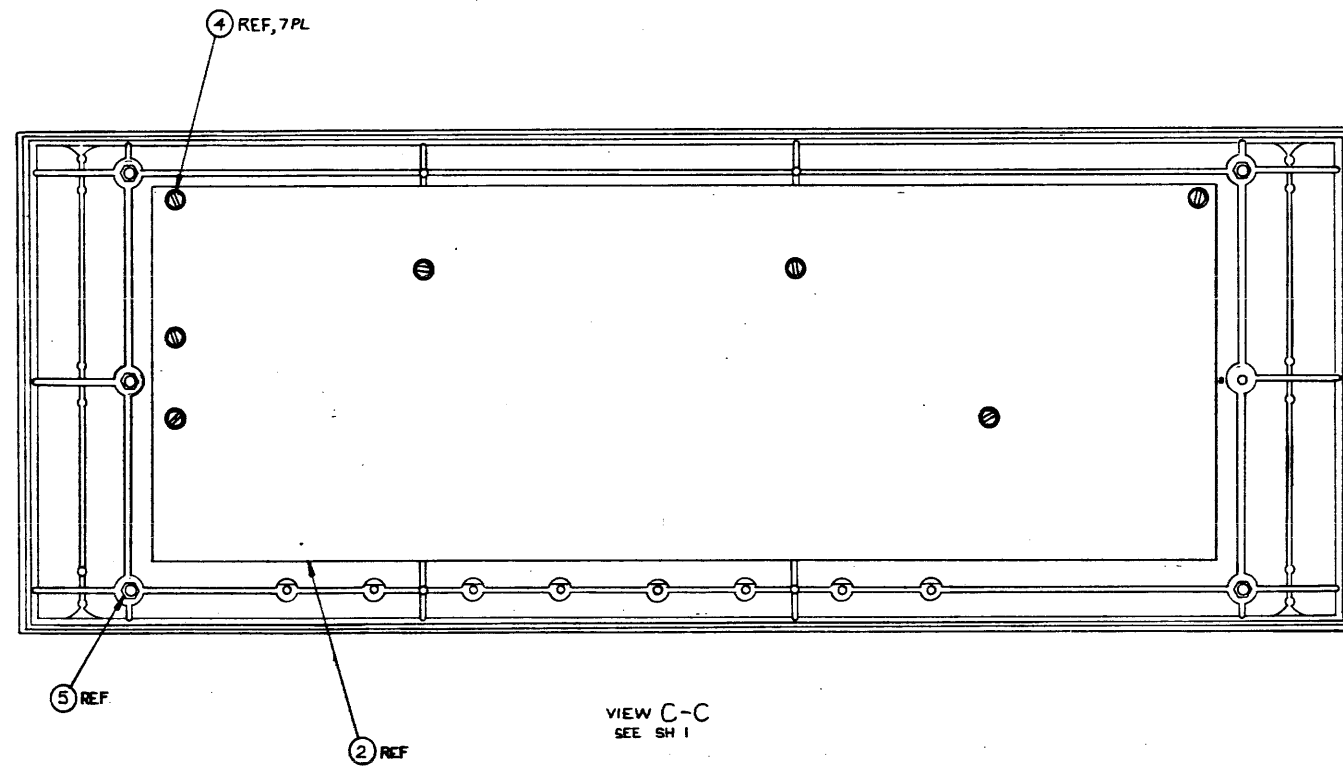


REV STATUS	REV	A	A
OF SHEETS	SHEET	1	2

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
			PARTS LIST		
			UNLESS OTHERWISE SPECIFIED: • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±1° • 3 PLACE DECIMALS ±.010 • 2 PLACE DECIMALS ±.02 • INTERPRET DRAWING PER MIL-D-10500 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS .010 PM • DIMENSIONAL LIMITS APPLY BEFORE FINISHING • PARENTHEetical INFO FOR REF ONLY		
			HOLE TOLERANCE		
			DRAWN: R. G. [Signature] DATE: 10-8-79 CHECKED: E. [Signature] DATE: 10-16-79 DESIGNED: [Signature] DATE: 11-17-79 APPROVED: [Signature] DATE: 11-17-79		
			TEXAS INSTRUMENTS INCORPORATED Dallas, Texas		
			ADAPTER, PROGRAMMING, PROM II		
			SIZE: PRICE NO: D 96214	DRAWING NO: 937363	
			SCALE: 1/1 SHEET 1 OF 2		

SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES

PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE TI DRAWING 72947



 TEXAS INSTRUMENTS <small>AN ANAHEIM COMPANY</small>	DATE 2/21/80	SIZE D	PROJECT NO. 96214	DRAWING NO. 937363	REV. A
	DESIGNED BY <small>(Signature)</small>	SCALE 1/1	SHEET 2	SHEET 2	SHEET A

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0937363-0001		REV. A	
ITEM NUMBER	QUANTITY ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945156-0001	FRONT PANEL, PROM PROGRAMMER						
0002	00001.000	EA		0937360-0001	PROM II PROG ADAPTER BOARD ASSY						
0003	00001.000	EA		0945157-0001	OVERLAY, PROM PROGRAMMER						
0004	00007.000	EA		0972683-0007	SCREW, 6-20 X 5/8 THD FRM, SLOT HX WSR HD						
0005	00005.000	EA		0807235-0002	STUD, BALL-FRICTION CATCH						
0006	00000.150	EA		0996639-0001	ADHESIVE, EPOXY, 2-PART KIT, CLFAP	004347-608					
0007	00001.000	EA		0937377-0001	COVER, PROM II						
0008	00002.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES						
0009	00002.000	EA		0418730-0103	WASHER, NO. 4 X .125, PLASTIC	QPL - N4S1515H04L					
0010	00002.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TIGHT CRES	QPL - M535333-70					
0011	00002.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS -35649-244					

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
		<i>J. R. ...</i>	2-13-80			ADAPTER, PROGRAMMING, PROM II	
APP'D. MFG.	DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
						7041	
						PART NUMBER	REV.
						LM0937363-0001	A

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0937505-0001		REV. AF	
ITEM NUMBER	QUANTITY ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	00002.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN						
0003	00002.000	EA		0944954-0001	INSULATOR, PWB, 14IN						
0004	00006.000	EA		0972988-0003	SCREW 2-56 X .250 PAN HEAD CRES						
0005	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0007	00002.000	EA		0235794-0050	TERMINAL 12808	SEE TI- DRAWING					
0007A					TP1 TP2						
0008	REF	EA		0937502-9901	LOGIC DIAGRAM, DISK CONT, 10 MEGA BYTE						
0009	REF	EA		0937503-9901	SPECIFICATION, DISK CONT, 10 MEGA BYTE						
0010	REF	EA		0937508-9901	I.P., UNIT, DISK CONT, 10 MEGA BYTE						
0013	00001.000	EA		0972137-0010	CONNECTOR, P.C. HEADER 50 CONTACTS	BE1 - 65483-020					
0013A					P3						
0014	00001.000	EA		0972706-0005	MEMBER, CONN, RIGHT ANGLE, 40 CONTACTS	075037-3495-1002					
0014A					P4						
0015	00001.000	EA		0972537-0001	DIODE, LED 550-0103 50 MA 3 V	DIA --550-0103					
0015A					CR01						
0016	00003.000	EA		0972537-0002	DIODE, LED GREEN RT ANGLE	072619-550-0206					
0016A					CR02 CR03 CR04						
0017	00001.000	EA		0996059-0013	OSCILLATOR, RF, CRYSTAL 5.000MHZ U.O.12	001537-K-1100 A					
0017A					UP11						
0040	00002.000	EA		0996089-0001	IC, SN74LS240N LINE DRIVERS	001295-SN74LS240N					

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
		<i>J. R. ...</i>	4-1-80			DISK CONTROLLER, 10 MEGA BYTE	
APP'D. MFG.	DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
						7506	
						PART NUMBER	REV.
						LM0937505-0001	AF

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0937505-0001		REV. AF	
ITEM NUMBER	QUANTITY ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0040A					UK04 UK03						
0042	00002.000	EA		0996089-0004	IC, SN74LS244N LINE DRIVER	-SN74LS244N					
0042A					UR05 UR07						
0044	00001.000	EA		0996307-0001	IC, SN74S373, OCTAL D. FLIPFLOP	TI -SN74S373					
0044A					UE09						
0045	00003.000	EA		0996201-0001	IC, SN74S374N, EDGE-TRIGGERED FLIP-FLOPS	TI -SN74S374N					
0045A					UF04 UJ03 UK06						
0046	00001.000	EA		0222222-7497	NETWORK SN7497N						
0046A					UJ07						
0057	00004.000	EA		0996564-0001	IC, SN74S225N 16 X 5-BIT FIFO MEMORY	001295-SN74S225N					
0057A					UK03 UK04 UK05 UK07						
0064	00003.000	EA		0996102-0001	IC, SN74S482N MICRO-ADDRESS GENERATOR	TI -SN74S482N					
0064A					UG09 UG10 UH09						
0066	00008.000	EA		0974859-0001	NETWORK, BI-POLAR 2BIT PROCESSOR -3002						
0066A					UC01 UC02 UC03 UC04 UE01						
0066B					UE02 UE03 UE04						
0070	00001.000	EA		0972899-0004	NETWORK, DUAL STATIC SHIFT REGISTER 1328	001295-TMS3129NC					
0070A					UL11						
0071	00013.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1L820P-108					
0071A					XUF05 XUF06 XUK09 XUK10						

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
						DISK CONTROLLER, 10 MEGA BYTE	
APP'D. MFG.	DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
						PART NUMBER	REV.
						LM0937505-0001	AF

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0937505-0001		REV. AF	
ITEM NUMBER	QUANTITY ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0071B					XUK08 XUG04 XUG09 XUG10						
0071C					XUH09 XUK03 XUK04 XUK05						
0071D					XUK07						
0072	00004.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 16 CONT	003612-D1L816P-108					
0072A					XUG03 XUG06 XUH06 XUJ07						
0074	00001.000	EA		2210188-0001	SOCKET, LOW PROFILE, DIP, 3 CONT, 8 PINS	003612-D1L88P-108					
0074A					XUL11						
0075	00072.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0075A					C08 C14 THRU C04						
0076	00001.000	EA		0972927-0041	CAP FIX MICA 500V 390 PF 5 %	CNR05E-391J00					
0076A					C09						
0078	00002.000	EA		0972927-0044	CAP FIX MICA 300V 510 PF 5 %	QPL -CA05F511J0C					
0078A					C01 C07						
0079	00001.000	EA		0972929-0433	CAP FIX CERAMIC .100 UF 10 % 50 V	QPL -M39014/01-1433					
0079A					C06						
0080	00001.000	EA		0972929-0415	CAP FIX CERAMIC .010 UF 10 % 100 V	QPL -M39014/01-1415					
0080A					C04						
0081	00001.000	EA		0972928-0048	CAP FIX MICA 300V 750 PF 5 %	QPL -CA05F751J0C					
0081A					C03						
0083	00001.000	EA		0539370-0339	RES FIX FILM 332 OHM 1% .25 WATT	COR -NA550-100PPH/C					

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
						DISK CONTROLLER, 10 MEGA BYTE	
APP'D. MFG.	DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
						PART NUMBER	REV.
						LM0937505-0001	AF

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0937505-0001		REV AF		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0083A					R04							
0084	00001.000	EA		0539370-0334	RES FIX FILM 294 OHM 1/8 .25 WATT	COR - NA55						
0084A					R01							
0085	00001.000	EA		0539370-0337	RES FIX FILM 316 OHM 1/8 .25 WATT	COR -NA550-100PPM/C						
0085A					R03							
0086	00002.000	EA		0539370-0498	RES FIX FILM 15.0K OHM 1/8 .25 WATT	COR - NA55						
0086A					R06 R10							
0087	00001.000	EA		0539370-0453	RES FIX FILM 5.11K OHM 1/8 .25 WATT	COR - NA55						
0087A					R02							
0088	00012.000	EA		0539370-0385	RES FIX FILM 1.00K OHM 1/8 .25 WATT	COR - NA55						
0088A					R05 R08 R09 R11 R12 R13 R14							
0088B					R17 R18 R19 R20 R35							
0089	00004.000	EA		0539370-0332	RESISTOR, 280 OHMS .25W 1/8 FX MEDAL FILM	016299-NA55 100PPM/C						
0089A					R21 R22 R23 R24							
0090	00001.000	EA		0772923-0001	SWITCH DUAL IN LINE, 4 POSITION	AMP -435166-2						
0090A					U802							
0092	00000.001	QT		0415804-0005	SEALING COMPOUND,ANAEROBIC-BLUE GRADE C							
0093	00000.001	TU		0415804-0011	SURFACE PRIMER,COMPOUND GRADE T YELLOW							
0094	00001.000	EA		0937504-0013	PROM,CONTROL,10 MEGA BYTE CONT,NUMBER 1							
0094A					UF05							
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	DISK CONTROLLER,10 MEGA BYTE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0937505-0001		REV AF		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0937505-0001		REV AF		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0095	00001.000	EA		0937504-0014	PROM,CONTROL,10 MEGA BYTE CONT,NUMBER 2							
0095A					UF06							
0096	00001.000	EA		0937504-0015	PROM,CONTROL,10 MEGA BYTE CONT,NUMBER 3							
0096A					UK09							
0097	00001.000	EA		0937504-0016	PROM,CONTROL,10 MEGA BYTE CONT,NUMBER 4							
0097A					UK10							
0098	00001.000	EA		0937504-0017	PROM,CONTROL,10 MEGA BYTE CONT,NUMBER 5							
0098A					UK08							
0099	00005.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH							
0099A					J3 J4 J5 J6 J7							
0100	00019.000	EA		0996864-0001	CONNECTOR,SOCKET PCB	022526-75060-007						
0101	00004.000	EA		0972924-0011	CAP FIX TANT SOLID 68 MFD 10 4 15 VOLT	GPL -M39003/1-2274						
0101A					C10 C11 C12 C13							
0103	00023.000	EA		0972946-0047	RES FIX 180 OHM 5 1/8 .25 CARBON FILM	R04 - R-25						
0103A					R15 R16 R25 THRU R27 R29							
0103B					THRU R34 R37 R39 THRU R44							
0103C					R49 R64 R77 R79 R81							
0104	00023.000	EA		0972946-0052	RES FIX 300 OHM 5 1/8 .25 CARBON FILM	R04 - R-25						
0104A					R28 R50 R51 R53 THRU R63							
0104B					R65 THRU R67 R69 R70 R75							
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	DISK CONTROLLER,10 MEGA BYTE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0937505-0001		REV AF		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0937505-0001		REV AF		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0104C					R76 R78 R80							
0107	00002.000	EA		0539370-0349	RES FIX FILM 422 OHM 1/8 .25 WATT	COR - NA55						
0107A					R07 R38							
0108	00001.000	EA		0937505-5001	AUTO-INSERTED PARTS LIST FOR 937505-0001							
0109	00001.000	EA		0972753-0021	CAP.,1200PF, 25, 25V, CERAMIC, AX-LEAD							
0109A					C05							
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	DISK CONTROLLER,10 MEGA BYTE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0937505-0001		REV AF		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0937505-5001		REV AF		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0937501-0001	PMB,DISK CONTROLLER,10 MEGA BYTE							
0018	00001.000	EA		0240000-7400	NETWORK-SN74H00N							
0018A					UF08							
0019	00003.000	EA		0972900-7402	NETWORK,SN74LS02N							
0019A					UC11 UE11 UF11							
0020	00001.000	EA		0219402-7404	NETWORK SN74S04N							
0020A					UJ08							
0021	00003.000	EA		0222222-7406	NETWORK SN7406N							
0021A					UR03 UR04 UR06							
0022	00002.000	EA		0222222-7407	NETWORK-SN7407N	11- -SN7407N						
0022A					UG05 UH07							
0023	00002.000	EA		0972749-0001	NETWORK, SN74LS08N							
0023A					UL09 UH12							
0024	00001.000	EA		0219402-7408	NETWORK SN74S08N	11- -SN74S08N						
0024A					UC10							
0025	00001.000	EA		0972900-7410	NETWORK SN74LS10N							
0025A					UL10							
0026	00001.000	EA		0240000-7411	NETWORK-SN74H11N							
0026A					UB12							
0027	00008.000	EA		0972784-0002	NETWORK SN74LS14N							
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO-INSERTED PARTS LIST FOR 937505-0001				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0937505-5001		REV AF		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0937505-5001		REV AF	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0027A					UA10 UF12 UL06 UL08 UM07						
0027B					UP07 UR08 UR01						
0028	00001.000	EA		0972813-0001	NETWORK-SN74LS21N						
0028A					UP12						
0029	00001.000	EA		0972814-0001	NETWORK-SN74LS27N						
0029A					UR10						
0030	00001.000	EA		0972900-7430	NETWORK SN74LS30N	TI	-SN74LS30N				
0030A					UN02						
0031	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N				
0031A					UB11 UD10 UK12						
0032	00001.000	EA		0222222-7438	NETWORK SN7438N						
0032A					UR02						
0033	00001.000	EA		0972900-7451	NETWORK SN74LS51N	TI	-SN74LS51N				
0033A					UN09						
0034	00001.000	EA		0240000-7451	NETWORK-SN74H51N						
0034A					UH12						
0035	00010.000	EA		0972900-7474	NETWORK SN74LS74N						
0035A					UB10 UG11 UL12 UN04 UN07						
0035B					UN11 UP04 UP06 UP08 UR11						
0036	00001.000	EA		0219402-7474	NETWORK SN74LS74N						
DRAFTSMAN DATE CTD. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 937505-0001											
APP. ENG. DATE APP. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0937505-5001 AF											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0937505-5001		REV AF	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0036A					UN09						
0037	00001.000	EA		0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N				
0037A					UN12						
0038	00006.000	EA		0972782-0001	NETWORK SN74LS132N	TI	-SN74LS132N				
0038A					UC12 UF07 UJ06 UJ12 UM11						
0038B					UN08						
0039	00003.000	EA		0972900-7174	NETWORK SN74LS174N						
0039A					UF09 UJ05 UP03						
0041	00004.000	EA		0996588-0002	IC, QUADRUPL. BUS TRANSCEIVER SN74LS243N	021955-	N74LS243N				
0041A					UA06 UB03 UB04 UB05						
0043	00001.000	EA		0972667-0001	NETWORK, SN74LS279N						
0043A					UE12						
0047	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI	-SN74LS138N				
0047A					UN08 UN10						
0048	00001.000	EA		0219402-7138	NETWORK SN74LS138N						
0048A					UE10						
0049	00002.000	EA		0219402-7139	NETWORK SN74LS139N						
0049A					UJ11 UM10						
0050	00001.000	EA		0222222-7148	NETWORK SN74LS48N						
0050A					UF10						
DRAFTSMAN DATE CTD. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 937505-0001											
APP. ENG. DATE APP. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0937505-5001 AF											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0937505-5001		REV AF	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0051	00001.000	EA		0972900-7153	NETWORK SN74LS153N	TI	-SN74LS153N				
0051A					UN06						
0052	00001.000	EA		0219402-7153	NETWORK SN74LS153N	TI	-SN74LS153N				
0052A					UE07						
0053	00013.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0053A					UA07 UA11 UB06 UB07 UB08						
0053B					UH03 UM10 UJ04 UJ10 UL02						
0053C					UN02 UN05 UN05						
0054	00003.000	EA		0972669-0001	NETWORK, SN74LS163N						
0054A					UN05 UL05 UP10						
0055	00003.000	EA		0219402-7182	NETWORK SN74LS182N	TI	-SN74LS182N				
0055A					UC07 UD07 UD08						
0056	00004.000	EA		0996427-0001	IC, SN74LS195AN 4-BIT PARALLEL-ACCESS	001295-	SN74LS195AN				
0056A					UL03 UL04 UM03 UM04						
0058	00004.000	EA		0996136-0002	IC, SN74LS258N, DATA SELECTORS/MULTIPLEXER	TI	-SN74LS258N				
0058A					UH02 UJ02 UK01 UL01						
0059	00002.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N				
0059A					UH11 UP05						
0060	00001.000	EA		0972159-7265	NETWORK, SN74LS25N						
0060A					UL07						
DRAFTSMAN DATE CTD. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 937505-0001											
APP. ENG. DATE APP. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0937505-5001 AF											

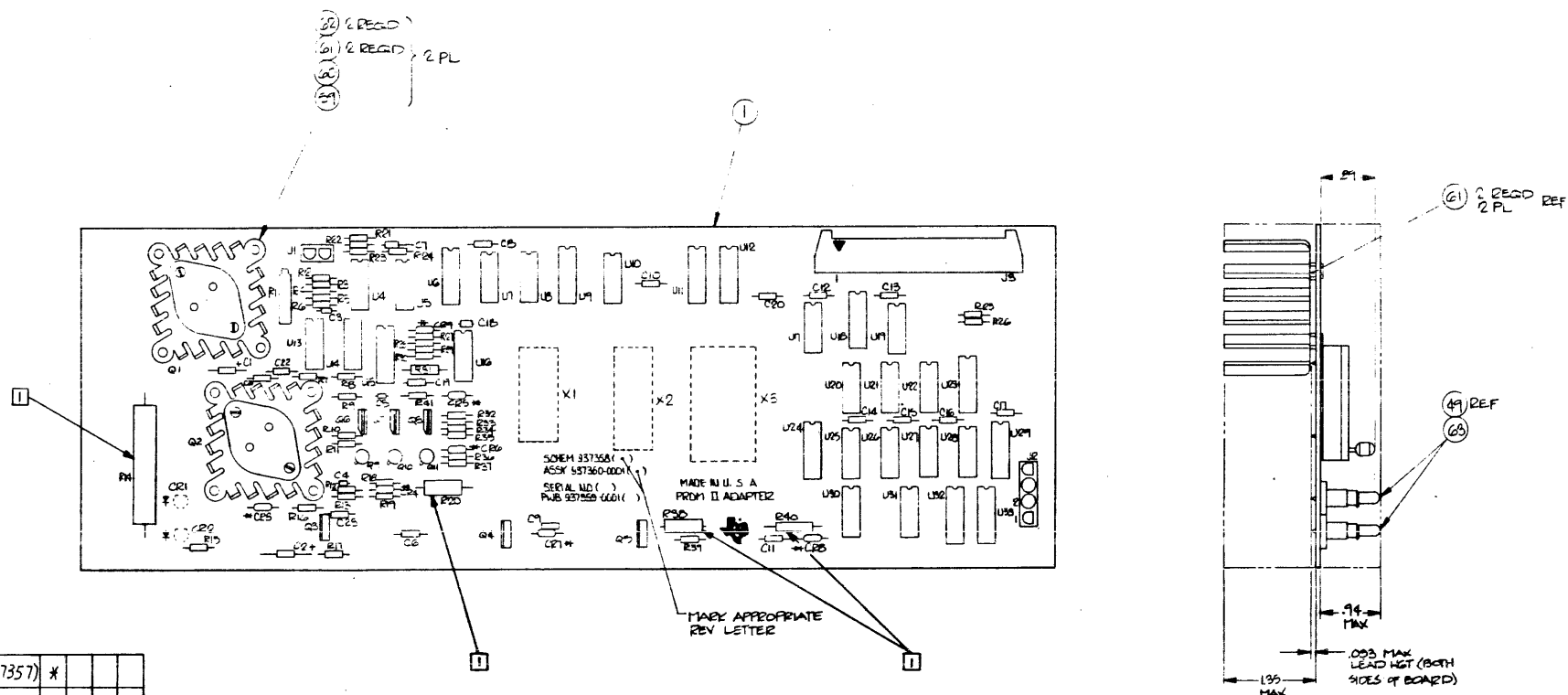
TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 937505-5001		REV AF	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061	00001.000	EA		0947573-0001	PROM, 32XB, BOOLEAN, MTC NO. 1						
0061A					UJ09						
0062	00001.000	EA		0972787-0004	NETWORK SN74LS368N						
0062A					UA05						
0063	00002.000	EA		0219402-7157	NETWORK SN74S157N						
0063A					UC08 UC09						
0065	00002.000	EA		0974674-0001	NETWORK SN75138N						
0065A					UA08 UB09						
0067	00001.000	EA		0974866-0001	NETWORK, CRC GENERATOR	FCD	--9401				
0067A					UM06						
0068	00001.000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	SI	-NE555V				
0068A					UP02						
0069	00003.000	EA		0974849-0001	NETWORK, DM8136						
0069A					UA02 UA03 UA04						
0073	00001.000	EA		0240000-7474	NETWORK-SN74H74N						
0073A					UD12						
0077	00003.000	EA		0972900-7420	NETWORK SN74LS20N						
0077A					UD11 UE08 UK02						
0102	00001.000	EA		0219402-7432	NETWORK SN74S32N	II-	-SN74S32N				
0102A					UG12						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							AUTO-INSERTED PARTS LIST FOR 937505-0001				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 937505-5001		AF	

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 937505-5001		REV AF	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0105	00001.000	EA		022222-7132	NETWORK SN74132N						
0105A					UH08						
0110	00001.000	EA		0219402-7410	NETWORK SN74S10N						
0110A					UP09						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							AUTO-INSERTED PARTS LIST FOR 937505-0001				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 937505-5001		AF	

NOTES: UNLESS OTHERWISE SPECIFIED:

1. R14, R20, R33 & R40 ARE TO BE INSTALLED APPROX .28 ABOVE THE PWB

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



REV/CHG LEVEL	TEST PROC (937357)	*		
	SCHM (937358)	*		
	PWB (937359)	B		
	ASSY (937360)	*		

3	MARK	100-02	21	H&T .12, CLR BLK	
2	SDR	127-01	00		
1	SLD	24-02	00		
SEQ NO	IDENT	F.SPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS SEE TI DRAWING 729467

-1	ITEM QTY	NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION	NOTES																												
PARTS LIST																																		
<p>UNLESS OTHERWISE SPECIFIED:</p> <ul style="list-style-type: none"> • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±1° • 3 PLACE DECIMALS ±.010 • 2 PLACE DECIMALS ±.02 • INTERPRET DRAWING PER MIL-D-1000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS .010 FIM • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHETICAL INFO FOR REF ONLY 																																		
<table border="0"> <tr> <td>0.125 - .001</td> <td>.125 - .001</td> <td>.125 - .001</td> <td>.125 - .001</td> <td>.125 - .001</td> <td>.125 - .001</td> <td>.125 - .001</td> </tr> <tr> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> </tr> <tr> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> </tr> <tr> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> <td>.001</td> </tr> </table>							0.125 - .001	.125 - .001	.125 - .001	.125 - .001	.125 - .001	.125 - .001	.125 - .001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
0.125 - .001	.125 - .001	.125 - .001	.125 - .001	.125 - .001	.125 - .001	.125 - .001																												
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9373 63		7C41																																
NEXT ASSY USED ON		APPLICATION																																
<p>DATE: 11-1-79 11-5-79 11-2-79</p>				<p>TEXAS INSTRUMENTS INCORPORATED Dallas, Texas</p> <p>PROM II PROGRAMMING ADAPTER BOARD ASSY</p> <p>DATE: 11-1-79 11-5-79 11-2-79</p> <p>SCALE: 1:1</p>																														
				<p>937360</p>																														

TEXAS INSTRUMENTS INCORPORATED		DATE 11/01/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0937360-0001		REV *	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0937359-0001	PWB, PROM II PROGRAMMING ADAPTER						
0002	00001.000	EA		0972749-0001	NETWORK, SN74LS08N						
0002A					U4						
0003	00002.000	EA		0972900-7474	NETWORK SN74LS74N						
0003A					U5 U10						
0004	00001.000	EA		C572810-0001	NETWORK-SN74LS221N						
0004A					U6						
0005	00004.000	EA		0222222-7407	NETWORK-SN7407N	TI- -SN7407N					
0005A					U7 U20 U25 U28						
0006	00001.000	EA		0972900-7404	NETWORK SN74LS04N						
0006A					U8						
0007	00005.000	EA		0972787-0003	NETWORK SN74LS367N						
0007A					U9 U11 U12 U23 U29						
0008	00001.000	EA		0956743-0001	IC, TLO84CN, OP AMP	001295-					
0008A					U13						
0009	00001.000	EA		0222222-7406	NETWORK SN7406N						
0009A					U14						
0010	00001.000	EA		0972037-4100	NETWORK, RES 10 K OHM 24 16PIN BELEMENT	073138-898-3-R10K					
0010A					U15						
0011	00003.000	EA		0972663-0001	NETWORK, LM339N						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PROM II PROG ADAPTER BOARD ASSY			
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	*	
							7041	LM0937360-0001	*		

TEXAS INSTRUMENTS INCORPORATED		DATE 11/01/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0937360-0001		REV *	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0011A					U16 U17 U19						
0012	00002.000	EA		0972037-3330	NETWORK, RESISTOR, 3.3K OHMS, 1.5W, 24T	SEE TI- DRAWING					
0012A					U18 U24						
0013	00002.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N					
0013A					U21 U26						
0014	00002.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N					
0014A					U22 U27						
0015	00002.000	EA		0972243-0001	TRANSISTOR, MPQ2907 QUAD DUAL-IN-LINE	MOT -MPQ 2907					
0015A					U30 U31						
0016	00001.000	EA		0972037-422C	NETWORK, RES 22 K OHM 24 16PIN BELEMENT	073138-898-3-R22K					
0016A					U32						
0017	00001.000	EA		0972037-347C	NETWORK, RES 4.7K OHM 24 16PIN BELEMENT						
0017A					U33						
0018	00001.000	EA		0539795-0009	RES VAR CERMET 5.0 K OHMS 10 4 .75 WATT	BOU -3069P-1-502					
0018A					R1						
0019	00004.000	EA		0539370-0481	RES FIX FILM 10.0K OHM 14 .25 WATT	COR -NA55D-100PPH/C					
0019A					R2 R7 R8 R1E						
0020	00001.000	EA		0539370-0407	RES FIX FILM 1.69K OHM 14 .25 WATT	COR - NA55					
0020A					R3						
0021	00004.000	EA		0972946-0057	RES FIX 22 K OHM 5 4 .25 W CARBON FILM	ROH - R-25					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PROM II PROG ADAPTER BOARD ASSY			
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	*	
								LM0937360-0001	*		

TEXAS INSTRUMENTS INCORPORATED		DATE 11/01/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0937360-0001		REV *	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021A					R4 R26 R35 R37						
0022	00001.000	EA		0539370-0467	RES FIX FILM 7.15K OHM 14 .25 WATT	COR - NA55					
0022A					R5						
0023	00008.000	EA		0972946-0089	RES FIX 10K OHM 54 .25 W CARBON FILM	ROH - R-25					
0023A					R6 R12 R25 R27 R28 R29 R36						
0023B					R41						
0024	00004.000	EA		0972946-0079	RES FIX 3.9K OHM 5 4 .25 W CARBON FILM	ROH - R-25					
0024A					R9 R16 R32 R39						
0025	00002.000	EA		0972946-0053	RES FIX 330 OHM 5 4 .25 W CARBON FILM	ROH - R-25					
0025A					R10 R15						
0026	00007.000	EA		0972946-0065	RES FIX 1.0K OHM 54 .25 W CARBON FILM	ROH - R-25					
0026A					R11 R19 R21 R22 R23 R30 R33						
0027	00001.000	EA		0539370-0463	RES FIX FILM 6.49K OHM 14 .25 WATT	COR - NA55					
0027A					R13						
0028	00001.000	EA		0972687-0069	RES. FIXED, 40 OHMS, 10W, 1.0 TOL.	SEE TI- DRAWING					
0028A					R14						
0029	00002.000	EA		0972946-0031	RES FIX 39.0 OHM 5 4 .25 W CARBON FILM	ROH - R-25					
0029A					R17 R34						
0030	00001.000	EA		0972978-0067	RES FIX COMP 1.0 W 39.0 OHMS 5 4	QPL -RC32G390JS					
0030A					R20						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PROM II PROG ADAPTER BOARD ASSY			
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	*	
								LM0937360-0001	*		

TEXAS INSTRUMENTS INCORPORATED		DATE 11/01/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0937360-0001		REV *	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0031	00001.000	EA		0972946-0103	RES FIX 39 K OHM 5 4 .25 W CARBON FILM	ROH - R-25					
0031A					R24						
0032	00001.000	EA		0972947-0031	RES FIX 39 OHM 5 4 .5 W CARBON FILM	ROH - R-50					
0032A					R31						
0033	00001.000	EA		0972978-0085	RES FIX COMP 1.0 W 220 OHMS 5 4	QPL -RC32G221JS					
0033A					R38						
0034	00001.000	EA		0972833-0133	RES. FIXED, 1.2K, 2.0 WATTS, 54 TOL.	SEE TI- DRAWING					
0034A					R40						
0035	00001.000	EA		C572924-0013	CAP FIX TANT SOLID 2.2 MFD 10 4 20 VCLT	QPL -M39003/1-2283					
0035A					C1						
0036	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 4 50 VCLT	QPL -M39003/1-2356					
0036A					C2						
0037	00016.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0037A					C3 C6 C8 C1C THRU C17						
0037B					C19 THRU C23						
0038	00002.000	EA		0972929-0385	CAP FIX CERAMIC 220 PF 1C4 200V	SEE - TI DRAWING					
0038A					C4 C5						
0039	00001.000	EA		C572929-0415	CAP FIX CERAMIC .010 UF 10 4 100 V	QPL -M39014/01-1415					
0039A					C7						
0040	00001.000	EA		C572965-0028	CAP, FIXED .220 MF 104 50V						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PROM II PROG ADAPTER BOARD ASSY			
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	*	
								LM0937360-0001	*		

TEXAS INSTRUMENTS INCORPORATED		DATE 11/01/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0937360-0001		REV *	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0040A					C9						
0041	0001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 104 200V	QPL -M39014/01-1397					
0041A					C18						
0042	0001.000	EA		0537989-0001	IC,LM309K,5 VOLT REGULATOR	SEE TI- DRAWING					
0042A					Q1						
0043	0001.000	EA		0972803-0001	TRANSISTOR TIP640 DARLINGTON,POWER NPN	TI - TIP640					
0043A					Q2						
0044	0001.000	EA		0972872-0015	IC, VOLTAGE REG., 25.0 MAX	SEE TI- DRAWING					
0044A					C3						
0045	0001.000	EA		0972872-0009	NETWORK LM 340-05T	NSC - LM 340-05T					
0045A					C4						
0046	0001.000	EA		0958762-0003	XST TIP 318 SOA TESTED	TI -TIP318					
0046A					Q5						
0047	00003.000	EA		0996918-0002	TRANSISTOR,PNR VN66AF N-CHANNEL FET	017856-VN66AF					
0047A					Q6 Q7 Q8						
0048	00003.000	EA		0972958-0002	TRANSISTOR,2N2907A PNP GEN PURP SW TO-18	TI - 2N2907A					
0048A					C9 C10 C11						
0049	00002.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0049A					CR1 CR2						
0050	00002.000	EA		0972934-0013	DIODE,1N750A 10.0V 5% SIL VGLT REG	QPL - 1N750A					
CRAFTSMAN DATE CD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE PROM II PROG ADAPTER BOARD ASSY APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0937360-0001 *											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/01/79		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0937360-0001		REV *	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0050A					CR3 CR7						
0051	00004.000	EA		0972932-0001	DIODE 1N914B	SEE TI- DRAWING					
0051A					CR4 CR5 CR6 CR9						
0052	0001.000	EA		0972934-0006	DIODE,1N751A 5.1 V 54 SIL VGLT REG	QPL - 1N751A					
0052A					CR8						
0053	0001.000	EA		0972423-0001	CONN, PCB HEADER 2CKT						
0053A					J1						
0054	0001.000	EA		0972423-0006	CONN, UNIV PWB MTD, 4 CIRCUIT						
0054A					J2						
0055	0001.000	EA		0972137-0005	CONNECTOR,PC 50 PIN	BEI - 65483-005					
0055A					J3						
0056	0001.000	EA		0996779-0003	SOCKET, DIP, 18 LDS	SEE TI- DRAWING					
0056A					X1						
0057	0001.000	EA		0996779-0004	SOCKET,DIP, 20LDS DUAL-IN-LINE	019613-220-3342000605					
0057A					X2						
0058	0001.000	EA		0996779-0006	SKT,DIP,ZERO INSERTION FORCE, 24 LEADS	019613-SEE DRAWING					
0058A					X3						
0059	00002.000	EA		0972480-0004	HEATSINK,CIRCUIT BOARD (TO-3)-1.25	THR --6004-8-2					
0060	00002.000	EA		0802373-0007	INSULATOR,PLATE	018565-60-11-4511-164					
0061	00004.000	EA		0803153-0025	NUT,SLEEVE,SHLDR,BRASS,6-32X.125						
CRAFTSMAN DATE CD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE PROM II PROG ADAPTER BOARD ASSY APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0937360-0001 *											

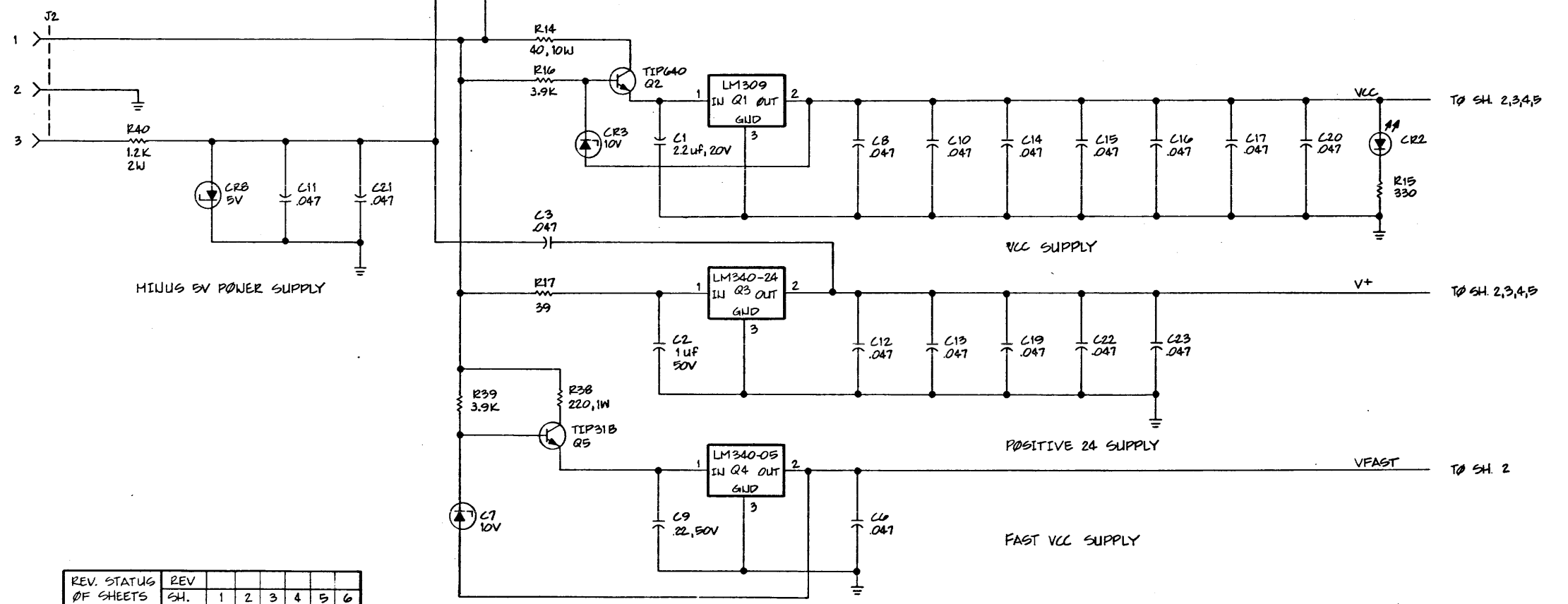
TEXAS INSTRUMENTS INCORPORATED		DATE 11/01/79		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0937360-0001		REV *	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0062	00004.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES						
0063	00002.000	EA		0946646-0001	STANDOFF,MTG,LED						
0064	REF	EA		0937358-9901	LOGIC, PROM II PROGRAMMING ADAPTER						
0065	REF	EA		0937357-9901	UNIT TEST PROC, PROM II PROG ADAPTER						
0066	REF	EA		0537356-9901	SPECIFICATION, PROM II PROG ADAPTER						
CRAFTSMAN DATE CD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE PROM II PROG ADAPTER BOARD ASSY APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0937360-0001 *											

- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES ARE PREFIXED WITH SMT4.
 2. VCC IS APPLIED TO PIN 6 OF ALL 8-PIN IC'S, PIN 16 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S.
 3. GROUND IS APPLIED TO PIN 4 OF ALL 8-PIN IC'S, PIN 7 OF ALL 14-PIN IC'S, PIN 6 OF ALL 16-PIN IC'S.
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC'S IS SHOWN AS FOLLOWS.



LS00 AND LS04 = DEVICE TYPE
 1, 2 AND 3 = PIN NUMBERS
 U2 AND U14 = REFERENCE DESIGNATOR

5. RESISTANCE VALUES ARE IN OHMS.
6. RESISTORS ARE 1/4 WATT, 5%.
7. CAPACITANCE VALUES ARE IN MICROFARADS.



REV. STATUS OF SHEETS	REV. SH.	1	2	3	4	5	6

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

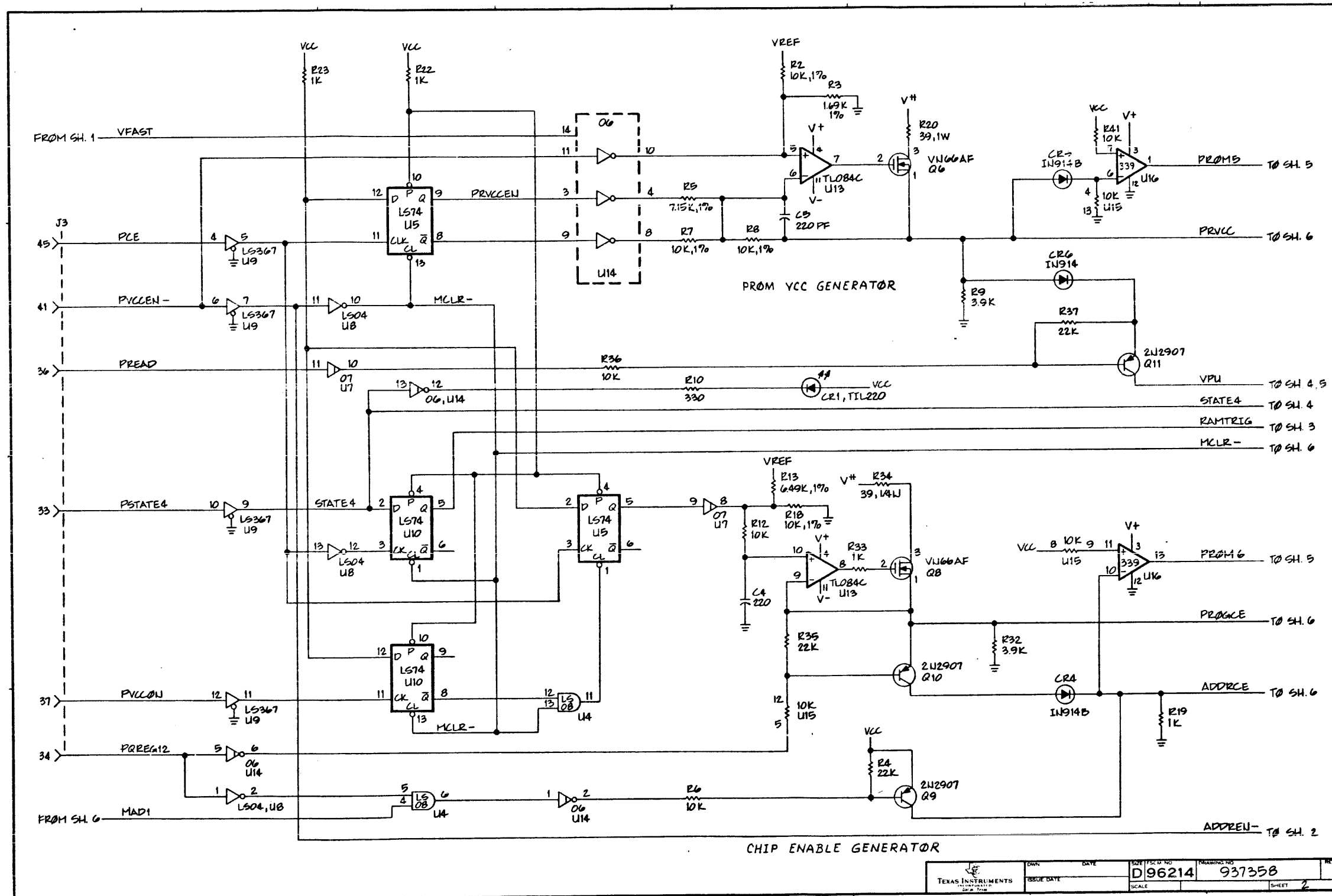
SEQ NO	IDENT	F.SPEC	NO	ADDITIONAL	NOTES

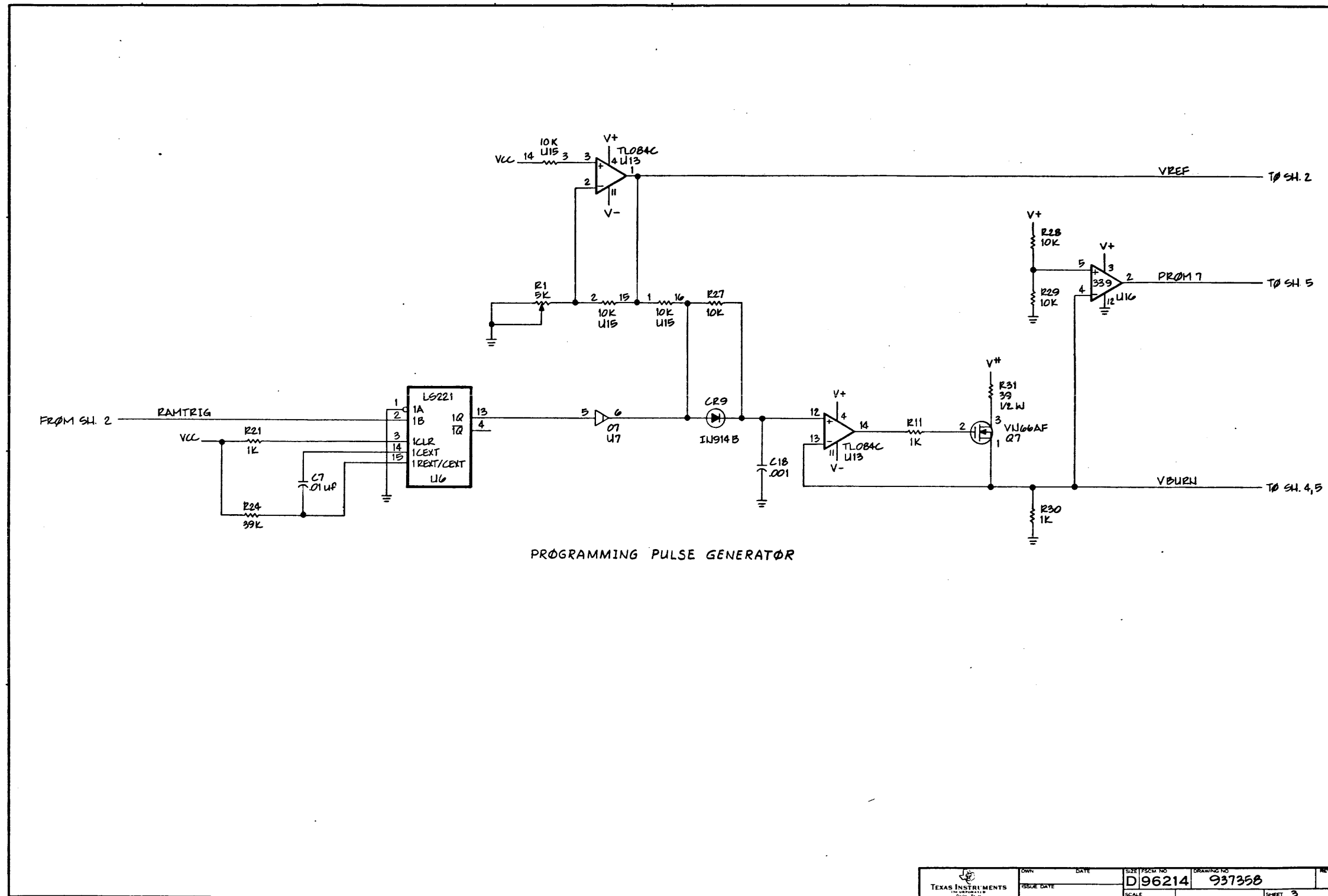
ITEM NO	QTY	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

PARTS LIST	
UNLESS OTHERWISE SPECIFIED:	DATE: AUGUSTINE VELA 11/9/79
• DIMENSIONS ARE IN INCHES	BY: C. KEELER 1-25-80
• TOLERANCES: ANGLES ±1°	DATE: 1-28-80
3 PLACE DECIMALS = .010	BY: Mike Keener 1-28-80
2 PLACE DECIMALS = .02	DATE: 1/30/80
• INTERPRET DRAWING PER MIL-D-1000	
• REMOVE ALL BURRS AND SHARP EDGES	
• CONCENTRICITY MACHINED DIAMETERS .010 FIM	
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	
• PARENTHESES INFO FOR REF ONLY	

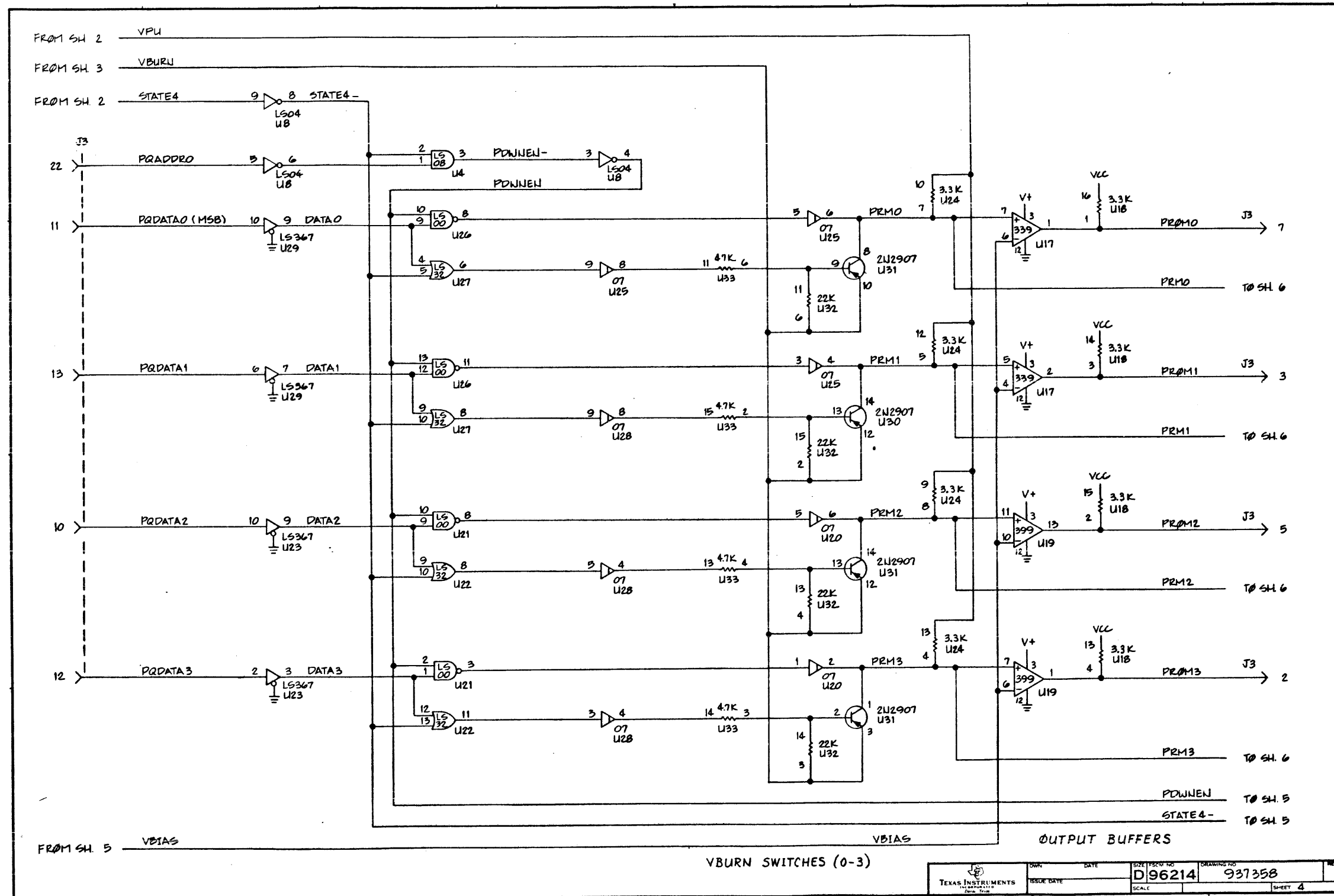
ITEM NO	QTY	DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
937360	7041			

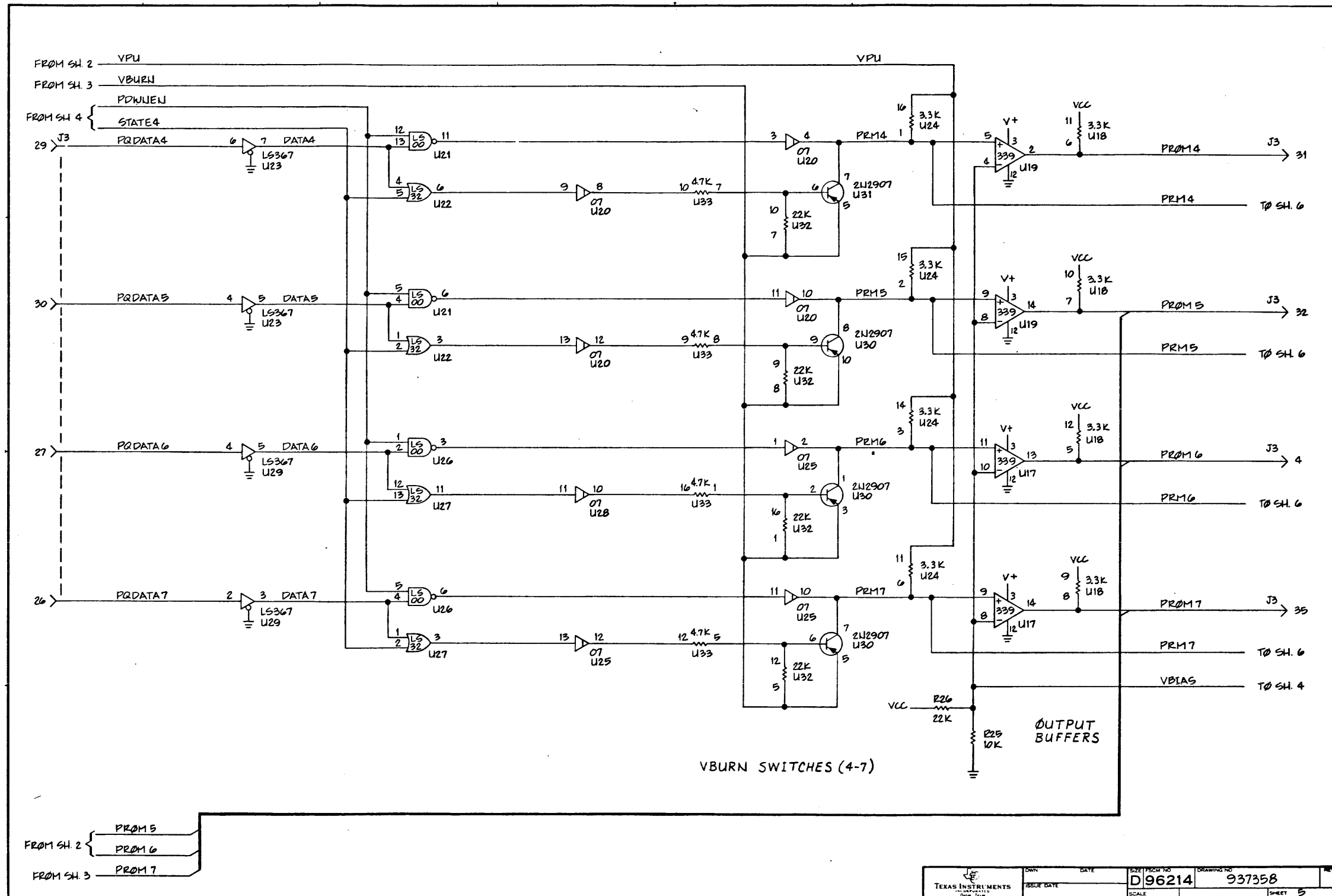
SIZE	FRM NO	DRAWING NO
D	96214	937358



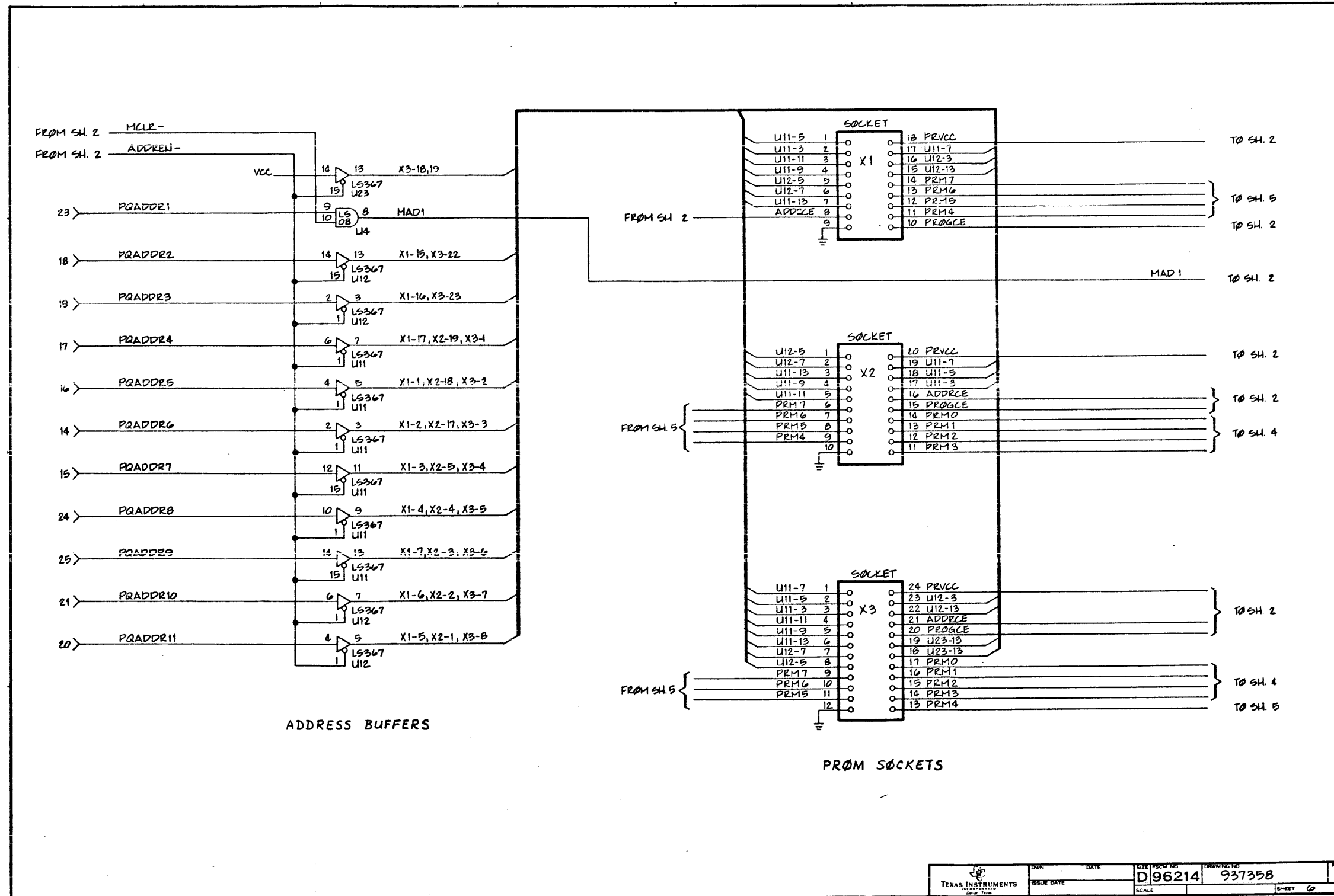


 TEXAS INSTRUMENTS <small>DAVIDSON BUILDING</small> <small>DAVIS ROAD</small> <small>IRVING, TEXAS 75039</small>	OWN	DATE	SIZE (PCB) NO.	DRAWING NO.	REV.
	ISSUE DATE		D 96214	937358	
	SCALE				SHEET 3





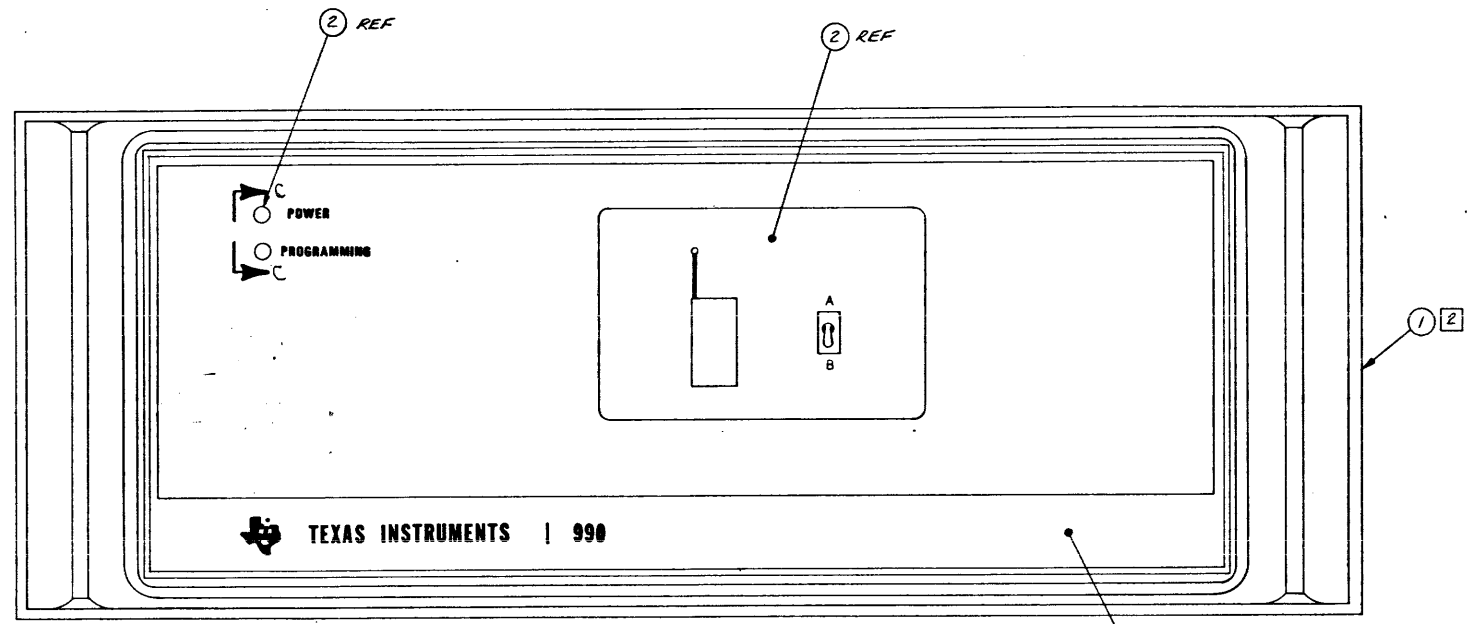
 TEXAS INSTRUMENTS <small>DAVIDSON ROAD DALLAS, TEXAS 75243</small>	DWN _____ DATE _____ ISSUE DATE _____	SIZE (FROM NO.) D96214	DRAWING NO. 937358	REV. _____
	SCALE _____	SHEET 5		



NOTES: CONT
 7. MODIFY 945165-0001, REV 3 THRU A PER
 RETROFIT KIT 943060 USING PARTS
 CALLED OUT ON LM OF 940060

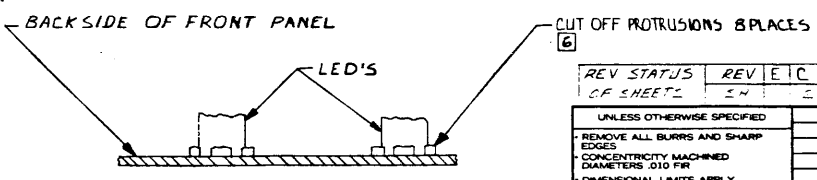
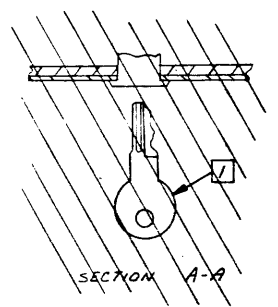
- NOTES:
- 1. ~~REMOVE KEY FROM LOCK BARREL WHILE~~
~~INSPECTING CAP THIS PROCEEDURE INSURES~~
~~PROPER ALIGNMENT OF TUMBLERS~~
 - 2. USE ALIGNMENT FIXTURE TO ALIGN ITEM 3
 WITH ITEM 1, IF REQUIRED
 - 3. ~~UNDER CHICAGO LOCK ITEM 5 IS USED~~
~~LOCATING TABS IN ITEM 4 MUST BE BROKEN~~
~~OFF~~
 - 4. ~~TIGHTEN FIRST NUT AGAINST PANEL TIGHTEN~~
~~SECOND NUT AGAINST FIRST NUT WITHOUT~~
~~TIGHTENING FIRST NUT~~
 - 5. ~~APPLY ITEM 16 TO THE CYLINDRICAL~~
~~BEARING SURFACE AND TO THE TUMBLERS~~
~~OF THE KEY PORTION OF ITEM 5~~
 - 6. CLIP OFF PLASTIC PROTRUSIONS ON BACK SIDE OF
 FRONT PANEL USING SIDE CUTTERS OR OTHER
 SUITABLE INSTRUMENT.

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		CN41333(C) (1) ADDED VIEW C-C (2) ADDED NOTE 6	5-16-77
B		CN426895 (A) (1) SH 2, (5) REF REPLACED (2) (1) (5) PL WAS (5) 4P (2) SH 2, ADDED ITEM 18 TO FID AND DASHED HIDDEN PARTS (3) ADDED NOTE 7 (4) LM, DELETED ITEMS 11 & 12; ITEM 15 QTY WAS 4; ADDED ITEM 18	8-25-77
C		CN420899(C) (1) DELETED NOTES 1, 3, 4, 5 (2) DELETED ITEMS 4 THRU 9, 13, 14, 16 (18) DELETED SECTION A-A & SECTION B-B (4) DELETED ALL RELATED PICTORIALS OF POWER SWITCH	10-17-77
D		CN425299(B) (1) CREATED -0002 LM	1-31-78
E		CN 429143 (C) (1) CREATED -0003 LM	10-2-78
F		CN 442782 (C) BR (1) DELETED ITEM 16 ON -0002 LM	10-17-78



FRONT VIEW

945165-0003	ADAPTER, PROGRAMMING, SPARE PARTS KIT, DASH 2
945165-0002	ADAPTER, PROGRAMMING, EPROM, EXP CAPABILITY
945165-0001	ADAPTER, PROGRAMMING, EPROM
PART NO.	DESCRIPTION



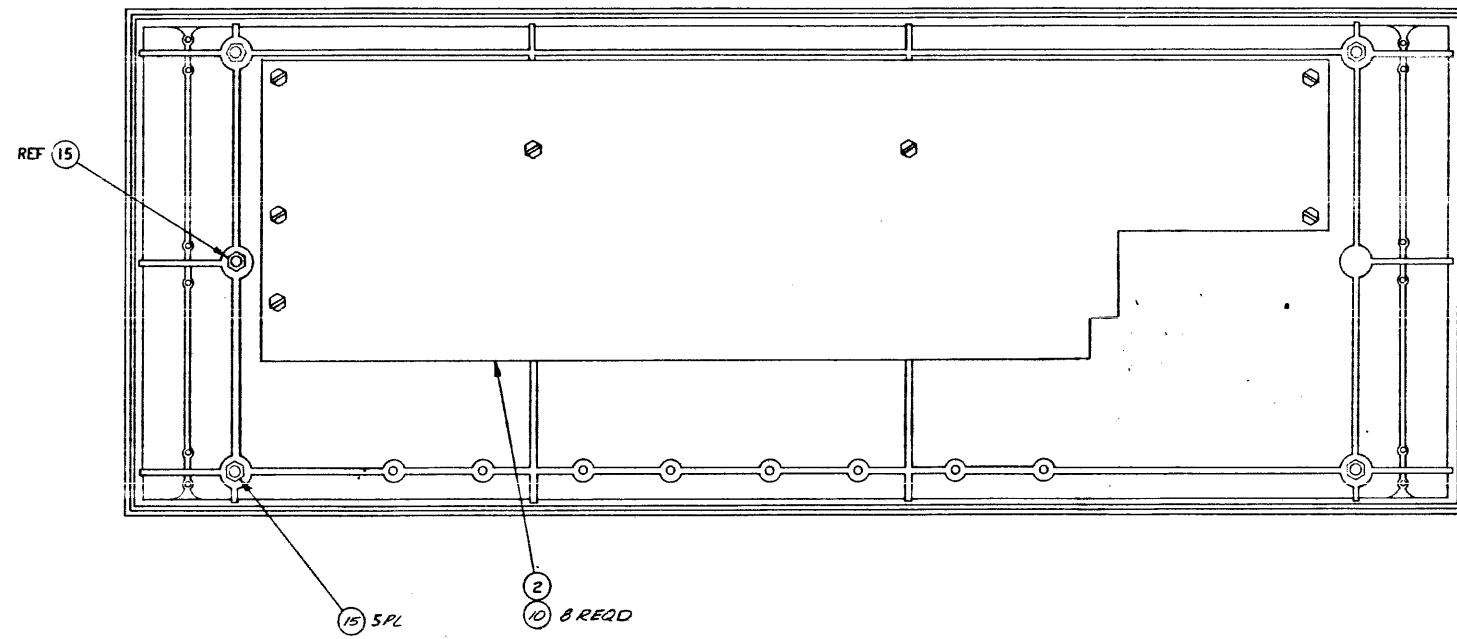
VIEW C-C
 SCALE: NONE
 ROTATED 90° CW

REV	STATUS	REV	E	I	C	QTY	REGD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
1		2										

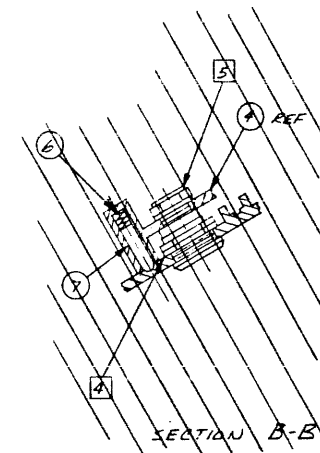
UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 FIR	DIMENSIONS ARE IN INCHES	ANGLES 90°
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	TOLERANCES	3 PLACE DECIMALS ±.010
INTERPRET DRAWINGS IN ACCORDANCE WITH MIL-STD-100			2 PLACE DECIMALS ±.02

DATE	BY	CHKD	ENGR	QA	APVD	CONTR NO	DESIGN ACTIVITY RELEASE
5/21/78							

TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas	
ADAPTER, PROGRAMMING	
SIZE: D CODE IDENT NO: 96214 DRAWING NO: 945165	SHEET 15 OF 23



REAR VIEW



SIZE	CODE IDENT NO	DRAWING NO
D	96214	945165
SCALE	C	SHEET 2

TEXAS INSTRUMENTS INCORPORATED		DATE 11/28/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945165-0001		REV F		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0945156-0001	FRONT PANEL, PROM PROGRAMMER							
0002	00001.000	EA		0945132-0001	ADAPTER, EPROM PERSONALITY							
0003	00001.000	EA		0945157-0001	OVERLAY, PROM PROGRAMMER							
0010	00008.000	EA		0972679-0008	SCREW, PLASTITE, 4-20 X 5/16							
0015	00005.000	EA		0802235-0002	STUD, BALL-FRICTION CATCH							
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
APPROVING		DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
			<i>J. K. AA</i>	11-28-78			7506	LM945165-0001	F			

TEXAS INSTRUMENTS INCORPORATED		DATE 11/28/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945165-0002		REV F		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0945156-0001	FRONT PANEL, PROM PROGRAMMER							
0002	00001.000	EA		0945132-0002	ADAPTER, EPROM PERSONALITY							
0003	00001.000	EA		0945157-0001	OVERLAY, PROM PROGRAMMER							
0010	00008.000	EA		0972679-0008	SCREW, PLASTITE, 4-20 X 5/16							
0015	00005.000	EA		0802235-0002	STUD, BALL-FRICTION CATCH							
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
APPROVING		DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
								LM945165-0002	F			

TEXAS INSTRUMENTS INCORPORATED		DATE 11/28/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945165-0003		REV F		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0945132-0002	ADAPTER, EPROM PERSONALITY							
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
APPROVING		DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
								LM945165-0003	F			

ZONE	LTR	DESCRIPTION	DATE	APPROVED
Y		CN442400 (C) 2.2.1	1/28/76	J.R.P.B.
AA		CN433197 (C) 2.2.1 I. IN NOTE 10F SHTS, CHANGED CONTACT N° 231 A4 TO D182, RESPECTIVELY II. UPDATED REV LEVEL BLOCK	2/20/76	J.R.P.B.
AB		CN450524 (D) 2.2.1 I. CHANGED SECTION E-E RESISTOR WAS MOUNTED ABOVE PWB II. ADDED NOTE 19 III. UPDATED REV BLOCK IV. DELETED ITEM 75 FROM -0001 AND -0002 L.M.'S	3-20-76	J.R.P.B.

NOTES: (COND)
C. CUT ETCH AT U8-1 AND U8-2 ON COMPONENT SIDE

CUT ETCH 2 PL

D. CONNECT R12 TO END OF R16 AND INSULATE OTHER END OF R12 COMPONENT SIDE

(NOTES COND SH 2)

NOTES:
I. REWORK FOR PWB 945166-0001, REVISION #
A. CUT ETCH AT R25 AND R27 CONDUCTOR SIDE CONNECT R27 TO R25 CONDUCTOR SIDE

CUT ETCH 2 PL

B. CUT ETCH TO EMITTER Q5 CONDUCTOR SIDE

CUT ETCH 2 PL

VIEW D-D
SCALE NONE
J3

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN411896 (C) 2.2.1 REV LEVEL BLOCK	4/17/76	J.R.P.B.
B		CN397953 (C) 2.2.1 Q. Gage (1) REVISED PER EXTENSIVE ENGR CHANGES	9-20-76	J.R.P.B.
C		CN417392 (D) 2.2.1 Q. Gage (1) REVISED PICTORIAL TO AGREE WITH PWB 945166 REV A (2) REV LEVEL BLOCK	9-20-76	J.R.P.B.
D		CN418147 (B) 2.2.1 I. ADDED NOTE 2 II. ADDED COMPONENT SIDE VIEW III. ADDED SH 3	9-20-76	J.R.P.B.
E		CN413400 (E) 2.2.1 I. 1.4/M, -1, ITEM 39 WAS 922756-0003 25V CAP II. UPDATED REV LEVEL BLOCK	9-20-76	J.R.P.B.
F		CN417301 (E) 2.2.1 I. 1.4/M, -1, ITEM 40 WAS 922759-0001 25V CAP II. UPDATED REV LEVEL BLOCK	9-20-76	J.R.P.B.
G		CN414090 (C) 2.2.1 I. UPDATED REV LEVEL BLOCK II. ADDED NOTE 3	9-20-76	J.R.P.B.
H		CN422652 (B) 2.2.1 I. SH 3 ADDED II. NOTE 4 & 5 (2) SH 1 UPDATED REV LVL BLK	11-2-76	J.R.P.B.
J		CN422598 (C) 2.2.1 I. REVISED PER EXTENSIVE ENGR CHANGES II. UPDATED REV LEVEL BLK	1-18-77	J.R.P.B.
K		CN417848 (A) 2.2.1 I. L.M. DELETED II. ITEM 33 QTY WAS 922946-0027 III. UPDATED REV LEVEL BLOCK	2-16-77	J.R.P.B.
L		CN420852 (C) 2.2.1 I. ITEM 5 PART NO WAS 922900-7400 (2) II. ADDED NOTE 7 (3) III. UPDATED REV LVL BLOCK	5-6-77	J.R.P.B.
M		CN420900 (C) 2.2.1 I. L.M. DELETED II. ITEM 52 (2) CHANGED PICTORIAL TO SHOW JUMPER (3) III. ITEM 51 QTY WAS 1.000 (4) IV. UPDATED REV LEVEL BLOCK	10-19-77	J.R.P.B.
N		CN425233 (C) 2.2.1 I. ADDED SEC E-E & CUTTING PLANE (2) II. ADDED ITEM 75 TO EID & L.M.S III. UPDATED REV LEVEL BLOCK	1-9-78	J.R.P.B.
P		CN427213 (B) 2.2.1 I. REVISED PER EXTENSIVE ENGR CHANGES II. ADDED SHEETS 4 & 5 III. UPDATED REV LEVEL BLOCK	3-7-78	J.R.P.B.
R		CN429446 (C) 2.2.1 I. SH 5, VIEW F II. ITEM 77 WAS ON CONDUCTOR SIDE UNDER PIN (2) III. UPDATED REV LEVEL BLOCK	3-7-78	J.R.P.B.
T		CN430093 (C) 2.2.1 I. ADDED NOTE 9 TO SH 4 (2) II. UPDATED REV LEVEL BLOCK	5-1-78	J.R.P.B.
U		CN424937 (C) 2.2.1 I. ON -0001 & -0002 L.M. 66SY PN & DESCRIPTION & QTY II. ITEM 66 WAS 415886-0003 GREASE, SILICONE HEAT COND., 00 RESP. III. ON SH 1 SECTION C-C, ADDED VIEW OF NEW PART ITEM 66 (3) IV. ON SH 3 NOTE B ADDED VIEW OF NEW PART ITEM 66 (4) V. UPDATED REV LVL BLOCK	11-6-78	E. Wing
V		CN448804 (B) 2.2.1 I. ADDED ITEM #81 (2) II. ADDED VIEW K-K & VIEW L-L TO SH 6 (3) III. ADDED SH 5 WITH NOTES 10, 11, & 12. IV. UPDATED REV LEVEL BLOCK	3-23-79	E. Wing
W		CN442381 (B) 2.2.1 I. 2 L.M. ADDED II. ITEM 82 & 83, DELETED III. ITEM 34 QTY WAS 2 IV. ITEM 74 QTY WAS 1 V. ITEM 71 QTY WAS 922934-0005 VI. ADDED NOTES 13, 14, 15 IN A6.5 (3) VII. UPDATED REV LEVEL BLOCK	6-17-79	J.R.P.B.

MARK APPROPRIATE REV LTR PER PROCESS 2

72 3 PLACES (91, 92, 94)

2 REQD

-0001 ASSY ONLY

SECTION C-C
SCALE: NONE
2 PL
(Q3, Q6)

SECTION E-E
3 PL (R16, R25 AND R28)
-0001 AND -0002
SCALE: NONE

TEST PROC	A	B	C	D	E	F	G	H	I	J	K	L	M
TEST PROCEDURE (345139-9901)	*	*	*	*	*	*	*	*	*	*	*	*	*
PWB (945166-0001)	D	D	E	E	F	H	J	J					
LOGIC DIAGRAM (945167-9901)	D	E	E	E	F	G	J	J					
ASSEMBLY (945132)	N	P	R	T	U	V	W	Y	Z				

PROCESSES:
1. SOLDER PER F-121, METHOD I, AND/OR F-114
2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .09, COLOR BLACK

REV STATUS OF SHEETS	REV SH	AB	Y	U	T	A	B	Z
	1	2	3	4	5	6		

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
REMOVE ALL BURRS AND SHARP EDGES	DIMS ARE IN INCHES
CONCENTRICITY MACHINED DIAMETERS .010 PIR	TOLERANCES ANGLES 1:1
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	3 PLACE DECIMALS 2.010
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	2 PLACE DECIMALS 2.08
INTERPRET DRAWINGS IN ACCORDANCE WITH MIL-STD-100	

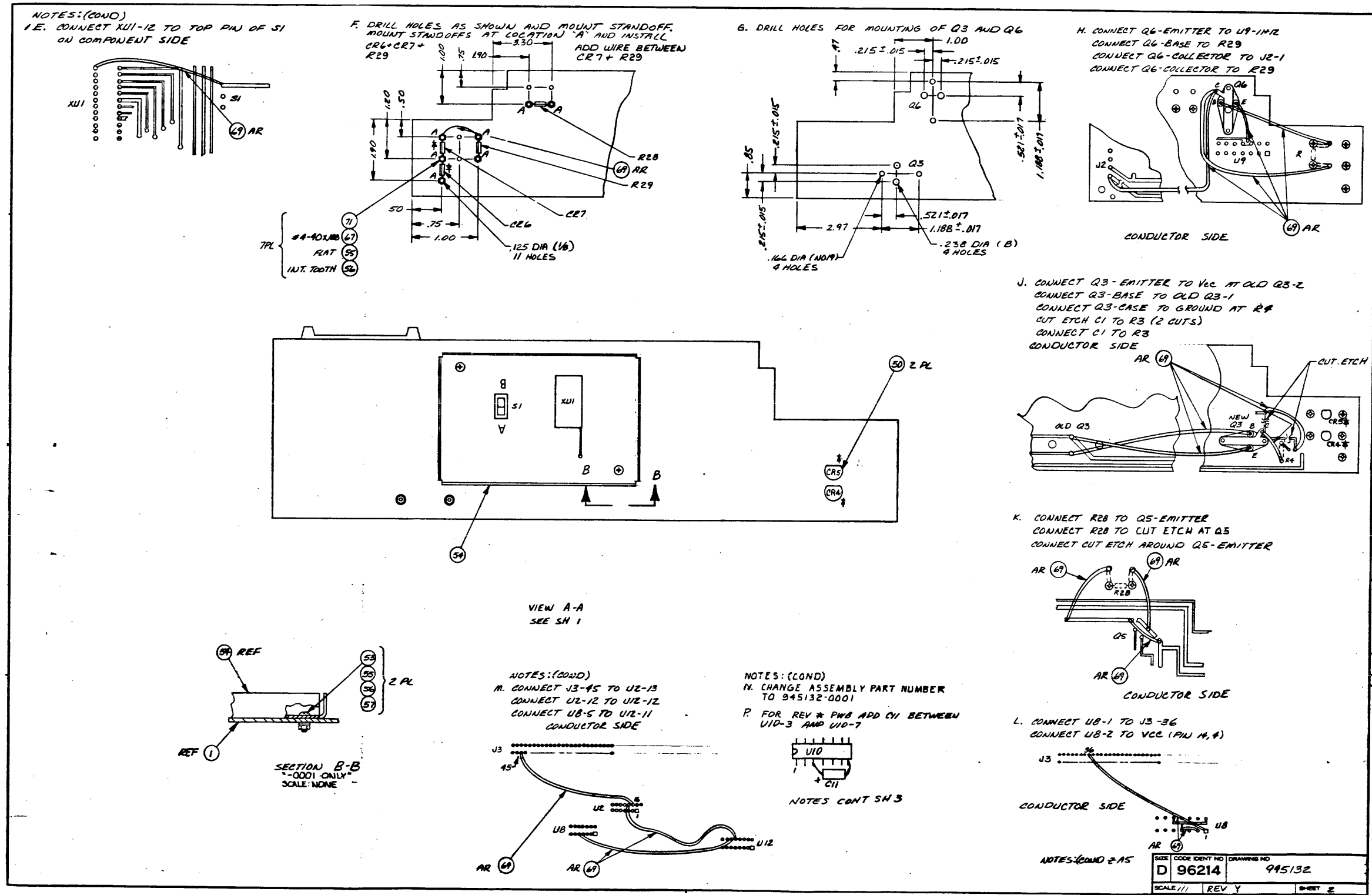
013	012	011	010	009	008	007	006	005
1.29	1.28	1.27	1.26	1.25	1.24	1.23	1.22	1.21
1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12
1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.04	1.03
1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94
0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.77	0.76
0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.68	0.67
0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58
0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49
0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40
0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.32	0.31
0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22
0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.14	0.13
0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04
0.03	0.02	0.01						

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

DATE	BY	DESCRIPTION
3/10/76	J.R.P.B.	DESIGN
5/20/76	J.R.P.B.	ENGR
5/20/76	J.R.P.B.	CHK
5/20/76	J.R.P.B.	APRD
5/20/76	J.R.P.B.	DESIGN ACTIVITY RELEASE

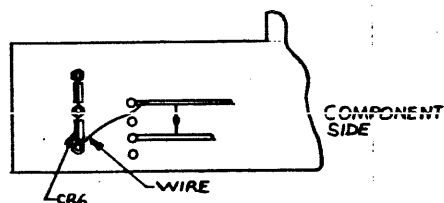
<p>TEXAS INSTRUMENTS INCORPORATED Dallas, Texas</p>	<p>EPROM PERSONALITY ADAPTER</p>
-------------------------------------------------------------	----------------------------------

<p>SIZE: D</p> <p>CODE IDENT NO: 96214</p> <p>DRAWING NO: 945132</p> <p>SCALE: 1:1</p> <p>SHEET: 1 OF 6</p>



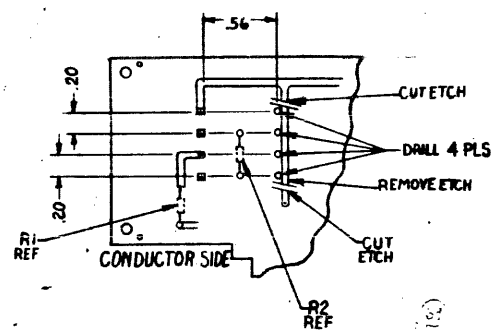
NOTES: CONTINUED

2. FOR PWB 945166 REV A -
ADD WIRE FROM CR6 TO GROUND.

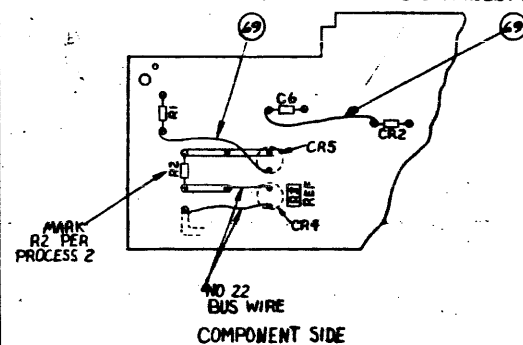


3. BEFORE INSTALLING ITEM 41 (J5) CUT PIN 50. THIS ALLOWS THE USE OF A KEYED CABLE.

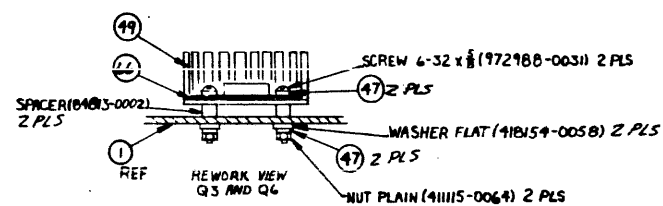
4. REWORK FOR PWB 945166 REV A TO RELOCATE CR4 & CR5
(A) DRILL (4) HOLES USING NO. 60 DRILL, THEN CUT ETCH TWO PLACES. REMOVE STRIP OF ETCH BETWEEN THE TWO CUTS. SEE CONDUCTOR SIDE VIEW.



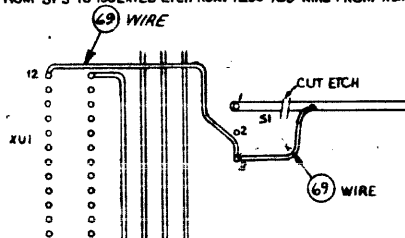
(B) ADD WIRES AND MAKE R1 AS SHOWN ON COMPONENT SIDE VIEW



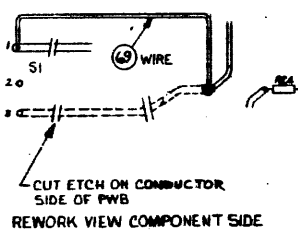
5. REWORK FOR PWB 945166 REV A



6. REWORK PROCEDURE TO USE SLIDE SWITCH (996209-0001) ON PWB 945166-0001 REV. A
A. CUT ETCH NEAR S1-1 ON COMPONENT SIDE OF PWB. ADD WIRE FROM S1-3 TO ISOLATED ETCH RUN. ALSO ADD WIRE FROM XU1-12 TO S1-3

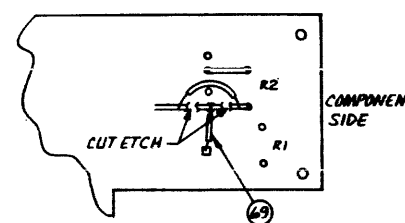


B. CUT ETCH NEAR S1-3 ON CONDUCTOR SIDE OF PWB. ADD WIRE FROM S1-1 TO FEED-THRU NEAR R24 ON COMPONENT SIDE OF PWB.

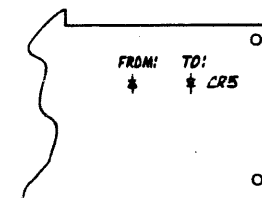


7. REWORK FOR PWB 945166 REV B, TO PROVIDE SUFFICIENT CURRENT FOR PROPER OPERATION OF CR5

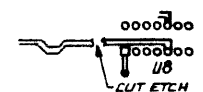
(A) COMPONENT SIDE: CUT &ND ETCH ON BOTH SIDES OF CR5
(B) REVERSE CR5
(C) CONNECT R2 TO GND ETCH USING ITEM 69
(D) CONNECT ANODE OF CR5 TO +5V USING ITEM 69



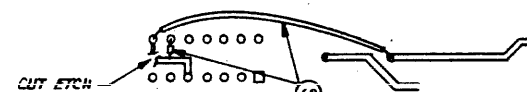
(E) REVERSE POLARITY SYMBOL FOR CR5



(F) ON COMPONENT SIDE CUT ETCH TO U8-5



(G) ON CONDUCTOR SIDE CUT ETCH BETWEEN U8-5 AND U8-8
(H) CONNECT JUMPER BETWEEN U8-5 AND U8-8
(I) CONNECT JUMPER BETWEEN U8-8 AND PLATED THROUGH HOLE CONNECTING ETCH TO U11-3



(K) CONNECT CB TO U2-14

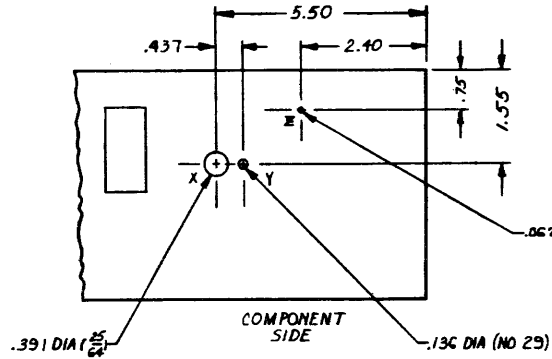


(NOTES CONTINUED ON SH 4)

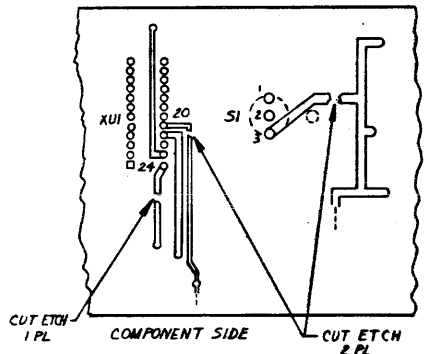
NOTES CONT.

B. REWORK TO BUILD 945132-0002 ASSY USING PWB 945166 REV B OR C TO PROVIDE TMS2716 PROGRAMMING CAPABILITY

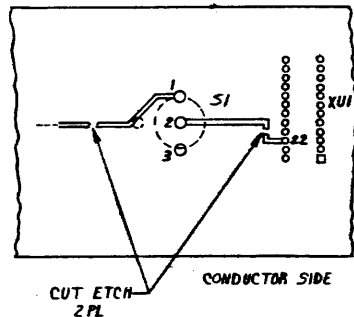
(A) DRILL HOLES FOR MOUNTING NEW SWITCH S1 AND WIRE ROUTING (LOCATIONS X,Y,Z)



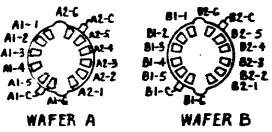
(B) 1. CUT ETCH TO XUI PINS 24 AND 20 ON COMPONENT SIDE
2. CUT ETCH TO S1-3 ON COMPONENT SIDE



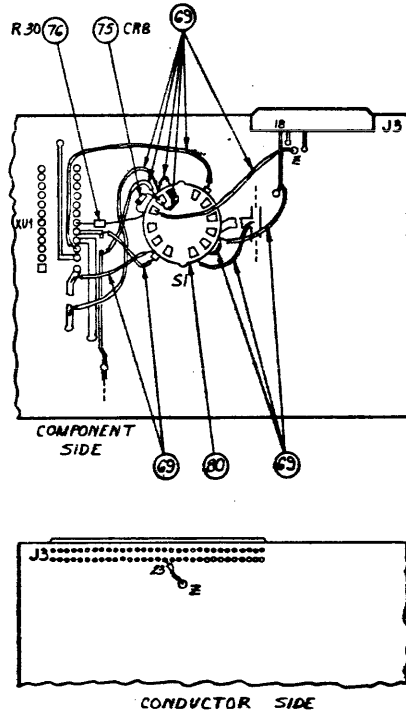
(C) 1. CUT ETCH TO XUI PIN 22 ON CONDUCTOR SIDE
2. CUT ETCH TO S1-1 ON CONDUCTOR SIDE



(D) INSTALL NEW SWITCH S1 AS SHOWN ON SH5, VIEW F-F
(E) NEW SWITCH S1 TERMINAL DEFINITION:

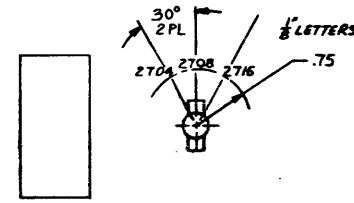


(F) CONNECT S1-A1-1 TO S1-A1-2
S1-A1-2 TO CUT ETCH AWAY FROM XUI-24
S1-B1-1 TO S1-B1-2
S1-B1-2 TO CUT ETCH AWAY FROM XUI-20
CONNECT DIODE CR5 FROM S1-B1-2 TO S1-A1-3 (BANDED END)
R30 FROM S1-A1-3 TO XUI-19
S1-A1-C TO XUI-24
S1-B1-C XUI-20
S1-A2-C XUI-22
S1-A2-2 S1-A2-3 CUT ETCH AWAY FROM S1
S1-A2-3 J3-18 ETCH
CONNECT S1-B1-3 TO J3-23 (ROUTE THRU HOLE Z AND SOLDER ON CONDUCTOR SIDE)
MOVE WIRE ORIGINATING AT XUI PIN 22 FROM OLD S1 TERMINAL TO CUT ETCH AWAY FROM S1

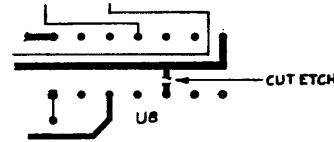


(G) WITH SWITCH S1 IN THE MOST COUNTER-CLOCKWISE POSITION INSTALL POINTER KNOB POINTING TO 2704 (REFERENCE SHEETS)
(H) SCRAPE OFF-0001 AND REMARK AS-0002

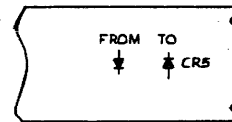
(J) TO REWORK FRONT PANEL OPENING COVER, FILE THE RECTANGULAR SWITCH HOLE ON LONG SIDES WITH A ROUND FILE UNTIL SWITCH MOUNTING BUSHING WILL LOOSELY FIT. THEN SPRAY PAINT LETTERED SURFACE FLAT BLACK AND REMARK AS SHOWN BELOW USING A DECAL MADE FROM ARTWORK UNTIL CORRECT PART IS REC'D FROM FAB SHOP



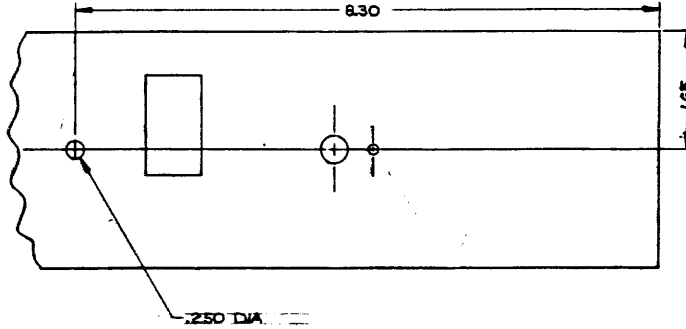
B. REWORK FOR PWB 945166-0002 REV D
(A) COMPONENT SIDE: CUT ETCH GOING TO PIN 5 AS SHOWN



(B) REVERSE POLARITY SYMBOL FOR CR5 AS INDICATED



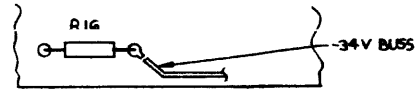
(I) REWORK PWB 945166, REV B THRU E TO PROVIDE EPROM POWER SWITCH.
A. DRILL HOLE FOR MOUNTING THE SWITCH, ITEM #81 INTO PWB ITEM #1 THROUGH COVER ITEM #54.



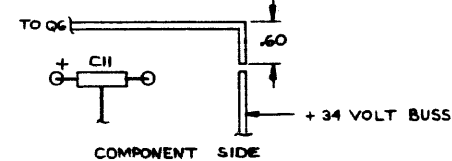
TEXAS INSTRUMENTS	DATE: 2-15-78	SIZE: PWB 945166	DRAWING NO: 945132	REV: T
	ISSUE DATE:	SCALE: 1:1	SHEET: 4	

B. REMOVE COVER, OPENING, FRONT PANEL ITEM #54, AND, INSTALL NEW COVER PN 946757-1 REV C.

C. CUT THE -34VOLT BUSS AS FOLLOWS:



D. CUT THE +34VOLT BUSS AS FOLLOWS:

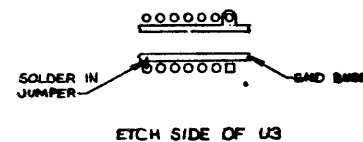


E. INSTALL SWITCH ITEM #81 AS SHOWN ON SHT 6 VIEW K-K: PUT THE KEYED OR FLAT SIDE OF MOUNTING BUSHING DOWN. WASHER INSULATOR IS PN403537-3.

F. MAKE THE FOLLOWING CONNECTIONS USING WIRE ITEM #69 AND SOLDER.

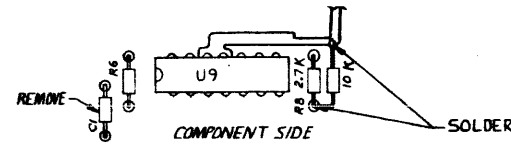
CONTACT	ITEM 81	ETCH (SEE NOTE 10C 4D)
A1	TO	Q6
A2	TO	+34V VBUSS
B1	TO	RIG PAD CUT FROM -34V BUSS
B2	TO	-34V BUSS

REWORK FOR PWB 945166-0002 REV D ONLY:
A. SOLDER IN JUMPER FROM U3 PIN 7 TO THE GND BUSS AS SHOWN BELOW.

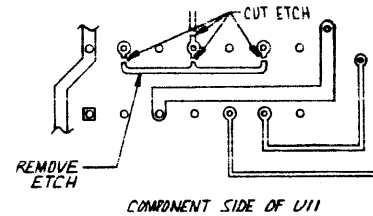


12. ITEM #81 ON THE -0002 LM PN 972250-0001 SWITCH, DPDT MAY BE USED WHEN 972250-0010 SWITCH, DPDT PARTS ARE NOT AVAILABLE.

13. REWORK INSTRUCTIONS TO IMPROVE PROGRAMMING OF ASSY 945132-0002 WITH PWB 945166 REVISIONS A THRU E:
A.) REMOVE CAPACITOR C1 ITEM 39.
B.) SOLDER IN A 10K OHM .25W RESISTOR AS SHOWN BELOW:



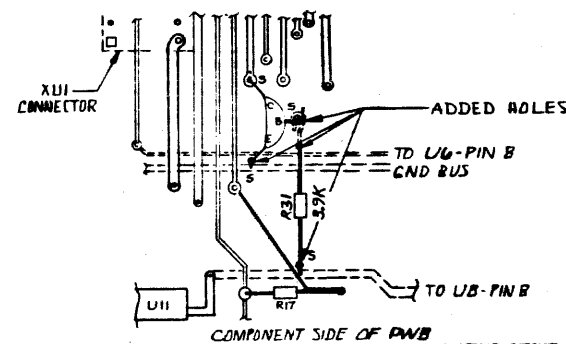
C.) REMOVE DEVICE U11 FROM PWB AND CUT ETCH AS SHOWN BELOW. THEN INSTALL A NEW DEVICE U11 AND SOLDER.



D.) ON THE ETCH SIDE OF U11 SOLDER JUMPER BETWEEN U11 PIN 5 TO U11 PIN 9, AND JUMPER BETWEEN U11 PIN 6 TO U11 PIN 8

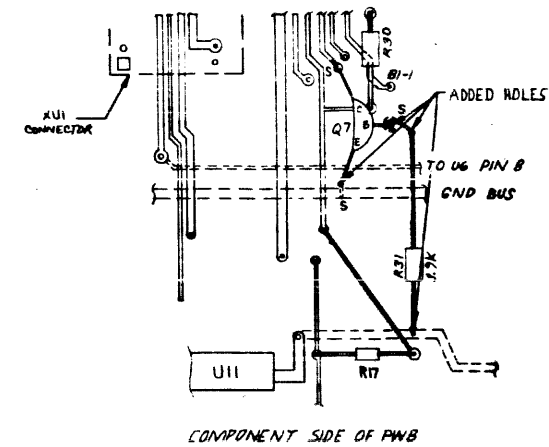
14. REWORK INSTRUCTION TO INCORPORATE A CLAMPING CIRCUIT FOR THE PROGRAMMING PULSE ON PWB ASSEMBLY 945132-0002 WITH PWB REVISIONS A THRU C ARE AS FOLLOWS:

- A.) PUT 4 HOLES INTO PWB AS SHOWN USING A #68 DRILL (.031) OR 1/32" DRILL
- B.) REMOVE SOLDER FROM PLATED THRU HOLE USED FOR THE COLLECTOR OF Q17, AND INSTALL Q17 LEADS THRU PWB APPROX. 1/8" AND BEND AS SHOWN.
- C.) INSTALL RESISTOR R31 (3.9K) LEADS INTO PWB; BEND AND CUT AS SHOWN.
- D.) SOLDER ALL CONNECTIONS AS MARKED WITH AN "S" IN FIGURE.



15. REWORK INSTRUCTION TO INCORPORATE A CLAMPING CIRCUIT FOR THE PROGRAMMING PULSE ON PWB ASSY 945132-0002 WITH PWB REVISIONS D AND E ARE AS FOLLOWS:
A.) INSTRUCTIONS ARE THE SAME AS IN NOTE 14-A, BUT USE THE FOLLOWING FIGURE:

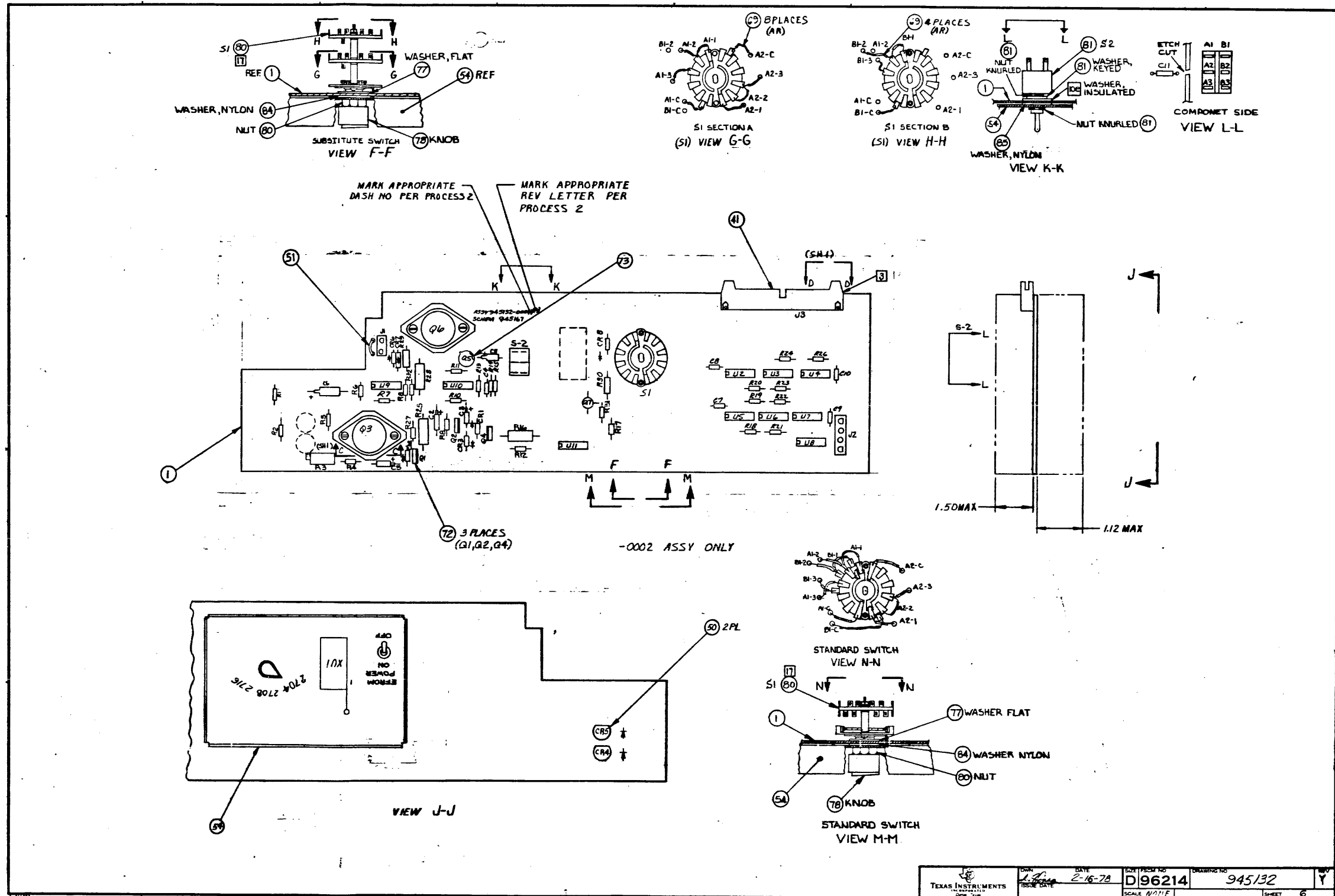
15 A. (CONTINUED)



16. WIRING OF TOGGLE SWITCH S2 CONTACTS TO PWB PN 945166 REV G. REF DWG SH. 6 VIEW L-L FOR SWITCH CONTACT NUMBERS, AND USE WIRE ITEM 69 TO MAKE CONNECTIONS TO CORRESPONDING CONTACT NUMBERS ON PWB (A1 OF S2 TO A1 ON PWB ETC.)

- 17. INSTALLATION OF S1 (ITEM 80) AS FOLLOWS:
A. CHECK TO SEE THAT ROTARY STOP KEY IS ADJACENT TO SWITCH KEY. REF DWG 2210471 VIEW A-A.
B. PLACE THE SMALL STOP RING INTO POSITION, AND THE LARGE STOP RING INTO POSITION. SEE DWG 2210471 FIG. 1 TOP VIEW.
C. INSTALL S1 (ITEM 80) INTO THE PWB ASSY PER VIEW M-M OR F-F, MAKING SURE THAT STOP RINGS DO NOT MOVE, AND TIGHTEN NUT (ITEM 80).
D. CHECK TO SEE IF SWITCH IS IN IT'S MOST COUNTER-CLOCKWISE POSITION. THEN ROTATE CLOCKWISE ONE POSITION, AND INSTALL KNOB (ITEM 78) POINTING STRAIGHT UP TOWARD 2708 AND TIGHTEN SET SCREWS (2 EACH).
E. CHECK SWITCH STOPS BY ROTATING IN BOTH DIRECTIONS UNTIL IT STOPS. SHOULD ROTATE 3 POSITIONS ONLY, IF NOT REPEAT STEPS A AND B.

18. ALL PWB ASSEMBLIES PN 945132-0002 BUILT WITH PWB'S WITH REVISIONS BEFORE REV J MAY HAVE TWO FINGERS REMOVED FROM THE HEAT SINK OF Q3 TO PROVIDE MORE CLEARANCE FOR INSTALLATION ONTO THE PROM CONSOLE.
19. ONE WATT RESISTORS R16, R25, & R28 MAYBE INSTALLED DOWN ONTO PWB SURFACE.



TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945132-0001		REV AA	
REF ID	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		0945166-0001	PCB, EPROM ADAPTER				
0001A					REV C OR EARLIER				
0002	REF	EA		0945167-9901	LOGIC DIAGRAM, EPROM PROGRAMMER ADAPTER				
0003	REF	EA		0944929-9901	SPECIFICATIONS, PROM PROGRAMMER INTERFACE				
0004	REF	EA		0945139-9901	TEST PROCEDURE, EPROM PERSONALITY ADAPTER				
0005	00001.000	EA		0222222-7406	NETWORK SN7406N				
0005A					U11				
0006	00001.000	EA		0222222-7400	NETWORK SN7400N	-SN7400N			
0006A					U8				
0007	00002.000	EA		0972900-7403	NETWORK SN74LS03N				
0007A					U3 U6				
0008	00002.000	EA		0972900-7404	NETWORK SN74LS04N				
0008A					U2 U5				
0009	00002.000	EA		0972749-0001	NETWORK, SN74LS08N				
0009A					U4 U7				
0011	00002.000	EA		0972662-0001	NETWORK, SN72723N				
0011A					U9 U10				
0012	00001.000	EA		0972689-0006	SOCKET, 24 PIN, ZERO INSERTION FORCE				
0012A					XU1				
0013	00001.000	EA		0958762-0003	XST TIP 318 SOA TESTED	TI -TIP318			
DRAFTSMAN: <i>J. K...</i> DATE: 10-23-79 DESIGN ENGINEER: <i>J. K...</i> DATE: 10-23-79 TITLE: ADAPTER, EPROM PERSONALITY PROJECT NO: 7506 PART NUMBER: LM0945132-0001 REV: AA									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945132-0001		REV AA	
REF ID	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0013A					Q1				
0014	00001.000	EA		0972960-0001	TRANSISTOR, PNP, PLASTIC, 80V, 40m	TI - TIP32B			
0014A					Q4				
0015	00001.000	EA		0972958-0001	TRANSISTOR, PNP, GEN. PURP., SW TO-5	TI - 2N2905A			
0015A					Q5				
0016	00001.000	EA		0537989-0001	IC, LM309K, 5 VOLT REGULATOR	SEE TI- DRAWING			
0016A					Q3				
0017	00001.000	EA		0972499-0001	NETWORK, LM320T-5.0/MC7905CP, -5 VOLT	SEE - TI DRAWING			
0017A					C2				
0018	00002.000	EA		0972934-0014	DIODE, IN759A 12.0 V 58 SIL VOLT REG	QPL - IN759A			
0018A					CR1 CR2				
0019	00002.000	EA		0539468-0007	DIODE, IN4007 1AMP 1000PIV RECTIFIER	TI -IN4007			
0019A					CR3 CR6				
0020	00002.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220				
0020A					CR4 CR5				
0021	00001.000	EA		0539370-0443	RES FIX FILM 4.02K OHM 1/4 .25 WATT	COR - NA55			
0021A					R7				
0022	00001.000	EA		0539370-0454	RES FIX FILM 5.23K OHM 1/4 .25 WATT	COR - NA55			
0022A					R4				
0023	00001.000	EA		0539370-0494	RES FIX FILM 14.3K OHM 1/4 .25 WATT	COR - NA55			
DRAFTSMAN: <i>J. K...</i> DATE: 10-23-79 DESIGN ENGINEER: <i>J. K...</i> DATE: 10-23-79 TITLE: ADAPTER, EPROM PERSONALITY PROJECT NO: 7506 PART NUMBER: LM0945132-0001 REV: AA									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0945132-0001		REV AA	
REF ID	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0023A					R5				
0024	00001.000	EA		0539370-0452	RES FIX FILM 4.99K OHM 1/4 .25 WATT	COR -NA550-100PPH/C			
0024A					R14				
0025	00001.000	EA		0539370-0468	RES FIX FILM 7.32K OHM 1/4 .25 WATT	COR - NA55			
0025A					R13				
0026	00001.000	EA		0539370-0430	RES FIX FILM 2.94K OHM 1/4 .25 WATT	COR -NA550-100PPH/C			
0026A					R10				
0027	00002.000	EA		0972946-0067	RES FIX 1.2K OHM 5/8 .25 W CARBON FILM	ROH - R-25			
0027A					R9 R12				
0028	00002.000	EA		0972946-0053	RES FIX 330 OHM 5/8 .25 W CARBON FILM	ROH - R-25			
0028A					R1 R2				
0029	00008.000	EA		0972946-0079	RES FIX 3.9K OHM 5/8 .25 W CARBON FILM	ROH - R-25			
0029A					R18 THRU R24 R26				
0030	00002.000	EA		0972946-0075	RES FIX 2.7K OHM 5/8 .25 W CARBON FILM	ROH - R-25			
0030A					R8 R17				
0031	00001.000	EA		0972946-0015	RES FIX 8.2 OHM 5/8 .25W CARBON FILM	ROH - R-25			
0031A					R15				
0032	00002.000	EA		0972946-0071	RES FIX 1.8K OHM 5/8 .25 W CARBON FILM	ROH - R-25			
0032A					R11 R27				
0033	00001.000	EA		0972946-0019	RES FIX 12.0 OHM 5/8 .25 W CARBON FILM	ROH - R-25			
DRAFTSMAN: <i>J. K...</i> DATE: 10-23-79 DESIGN ENGINEER: <i>J. K...</i> DATE: 10-23-79 TITLE: ADAPTER, EPROM PERSONALITY PROJECT NO: 7506 PART NUMBER: LM0945132-0001 REV: AA									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0945132-0001		REV AA	
REF ID	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0033A					R6				
0034	00001.000	EA		0972947-0059	RES FIX 560 OHM 5/8 .5 W CARBON FILM	ROH - R-50			
0034A					R29				
0035	00001.000	EA		0972833-0088	RES FIXED 100 OHMS 2 WATT 5%				
0035A					R25				
0036	00001.000	EA		0539795-0008	RES VAR CERMET 2.0 K OHMS 10 % .75 WATT	BOU -3069P-1-202			
0036A					R3				
0037	00003.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 4 20 VOLT	QPL -M39003/1-2283			
0037A					C3 C5 C11				
0038	00002.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 4 15 VOLT	QPL -M39003/1-2271			
0038A					C2 C6				
0039	00002.000	EA		0972757-0003	CAP, FIXED CERAMIC 150 PF 10% 50V	UC -C51C151K			
0039A					C1 C4				
0040	00004.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%				
0040A					C7 THRU C10				
0041	00001.000	EA		0972137-0005	CONNECTOR, PC 50 PIN	BEI - 65483-005			
0041A					J3				
0042	00001.000	EA		0972423-0001	CONN, PCB HEADER 2CKT				
0042A					J1				
0043	00001.000	EA		0972423-0006	CONN, UNIV PWB HTO, 4 CIRCUIT				
DRAFTSMAN: <i>J. K...</i> DATE: 10-23-79 DESIGN ENGINEER: <i>J. K...</i> DATE: 10-23-79 TITLE: ADAPTER, EPROM PERSONALITY PROJECT NO: 7506 PART NUMBER: LM0945132-0001 REV: AA									

TEXAS INSTRUMENTS INCORPORATED		DATE 10/18/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0945132-0001		REV AA	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0043A					J2						
0044	0001.000	EA		0996209-0001	SWITCH,SLIDE,PC MOUNT	C-K -1101CQ					
0044A					S1						
0045	00004.000	EA		C572988-0028	SCREW 6-32 X .375 PAN HEAD CRES						
0047	00004.000	EA		0411101-0058	LOCKWASHER #6 EXTERNAL TOOTH CRES	QPL - MS35335-58					
0049	00002.000	EA		0800482-0007	HEATSINK,ALUMINUM						
0050	00002.000	EA		0946646-0001	STANDOFF,PTC,LED						
0051	00000.200	FT		0538347-5099	WIRE HOOKUP 8-18 AWG 19 STR BK/WH	JUD - HW0203					
0053	00002.000	EA		C572988-0014	SCREW 4-40 X .312 PAN HEAD CRES						
0054	00001.000	EA		0946757-0001	COVER,OPENING,FRONT PANEL						
0055	00009.000	EA		0416622-0011	WASHER #4 FLAT	QPL - AN960C4L					
0056	00009.000	EA		0411100-0074	LOCKWASHER 1/4 INTERNAL TOOTH CRES	QPL - MS35333-74					
0057	00002.000	EA		0411115-0044	NUT,4-40 HEXAGON CRES STEEL	MS -35649-244					
0060	00001.000	EA		0972833-0104	RES 270 OHM 2W 5% WIRE WOUND,FIXED	OHM -SERIES 22					
0060A					R28						
0061	00001.000	EA		0972833-0111	RES 400 OHM 2W 5% WIRE WOUND,FIXED	OHM -SERIES 22					
0061A					R16						
0063	00001.000	EA		0972959-0001	TRANSISTOR,2N3055 NPN 70V 115N TO-3	TI - 2N3055					
0063A					Q6						
0064	00001.000	EA		0418036-0011	DIODE, 1N972B						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ADAPTER, EPROM PERSONALITY											
APPD-MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0945132-0001 AA											

TEXAS INSTRUMENTS INCORPORATED		DATE 10/18/79		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0945132-0001		REV AA	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0064A					CR7						
0066	00002.000	EA		0802373-0007	INSULATOR,PLATE	018565-60-11-4511-164					
0067	00007.000	EA		0972988-0012	SCREW 4-40 X .188 PAN HEAD CRES						
0068	00000.250	FT		0972436-0803	INSUL SLEEVING,PVC .034ID X.016THK #20	MKL -HT-105C-20					
0069	00003.500	FT		0457313-0086	WIRE 24 AWG SOLID,TEFLON,WHITE	QPL - MIL-W-16878/4					
0071	00007.000	EA		0418320-0010	TERMINAL,STUD,INSULATED						
0072	AR	EA		0996069-0003	ADH,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0073	00001.000	EA		0184262-0001	PAD,MOUNTING,TO-5, 4 LEAD,RED	THR - 7717-5					
0074	00002.000	EA		0803153-0029	NUT,SLEEVE,SHLDR,BRASS,6-32X.125						
0075	00004.000	EA		0089936-0084	EYELET-ROLLED FLANGE	US -SE-25					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ADAPTER, EPROM PERSONALITY											
APPD-MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0945132-0001 AA											

TEXAS INSTRUMENTS INCORPORATED		DATE 10/18/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945132-0002		REV AA	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945166-0001	PCB, EPROM ADAPTER						
0002	REF	EA		0945167-9901	LOGIC DIAGRAM, EPROM PROGRAMMER ADAPTER						
0003	REF	EA		0944929-9901	SPECIFICATIONS,PRGM PROGRAMMER INTERFACE						
0004	REF	EA		0945139-9901	TEST PROCEDURE,EPROM PERSONALITY ADAPTER						
0005	00001.000	EA		0222222-7406	NETWORK SA7406N						
0005A					U11						
0006	00001.000	EA		0222222-7400	NETWORK SN7400N	-SN7400N					
0006A					U8						
0007	00002.000	EA		0972900-7403	NETWORK SN74LS03N						
0007A					U3 U6						
0008	00002.000	EA		0972900-7404	NETWORK SN74LS04N						
0008A					U2 U5						
0009	00002.000	EA		0972749-0001	NETWORK, SN74LS08N						
0009A					U4 U7						
0011	00002.000	EA		0972662-0001	NETWORK,SN72723N						
0011A					U9 U10						
0012	00001.000	EA		0972689-0006	SOCKET, 24 PIN, ZERO INSERTION FORCE						
0012A					XU1						
0013	00001.000	EA		0958762-0003	XST TIP 318 SOA TESTED	TI -TIP318					
0013A					Q1						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ADAPTER, EPROM PERSONALITY											
APPD-MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0945132-0002 AA											

TEXAS INSTRUMENTS INCORPORATED		DATE 10/18/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945132-0002		REV AA	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014	00001.000	EA		0972960-0001	TRANSISTOR, PNP,PLASTIC,80V,40M	TI - TIP32B					
0014A					Q4						
0015	00001.000	EA		0972958-0001	TRANSISTOR, PNP,GEN.PURP.SM TO-5	TI - 2N2905A					
0015A					Q5						
0016	00001.000	EA		0537989-0001	IC,LM309K,5 VOLT REGULATOR	SEE TI- DRAWING					
0016A					Q3						
0017	00001.000	EA		0972499-0001	NETWORK,LM320T-5.0/MC7905CP,-5 VOLT	SEE - TI DRAWING					
0017A					Q2						
0018	00002.000	EA		0972934-0014	DIODE,1N759A 12.0 V 5% SIL VOLT REG	QPL - 1N759A					
0018A					CR1 CR2						
0019	00002.000	EA		0539468-0002	DIODE,1N4002 1AMP 100PIV RECTIFIER	TI - 1N4002					
0019A					CR3 CR6						
0020	00002.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0020A					CR4 CR5						
0021	00001.000	EA		0539370-0443	RES FIX FILM 4.02K OHM 1% .25 WATT	COR - NA55					
0021A					R7						
0022	00001.000	EA		0539370-0454	RES FIX FILM 5.23K OHM 1% .25 WATT	COR - NA55					
0022A					R4						
0023	00001.000	EA		0539370-0496	RES FIX FILM 14.3K OHM 1% .25 WATT	COR - NA55					
0023A					R5						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ADAPTER, EPROM PERSONALITY											
APPD-MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0945132-0002 AA											

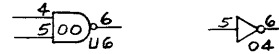
TEXAS INSTRUMENTS INCORPORATED		DATE 10/18/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0945132-0002		REV AA	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0024	0001.000	EA		C539370-0452	RES FIX FILM 4.99K OHM 1/8 .25 WATT	COR -NA550-100PPH/C					
0024A					R14						
0025	0001.000	EA		0539370-0468	RES FIX FILM 7.32K OHM 1/8 .25 WATT	COR - NA55					
0025A					R13						
0026	0001.000	EA		0539370-0430	RES FIX FILM 2.94K OHM 1/8 .25 WATT	COR -NA550-100PPH/C					
0026A					R10						
0027	00002.000	EA		0972946-0067	RES FIX 1.2K OHM 5/8 .25 W CARBON FILM	ROH - R-25					
0027A					R9 R12						
0028	00002.000	EA		0972946-0053	RES FIX 330 OHM 5/8 .25 W CARBON FILM	ROH - R-25					
0028A					R1 R2						
0029	00009.000	EA		0972946-0079	RES FIX 3.9K OHM 5/8 .25 W CARBON FILM	ROH - R-25					
0029A					R18 THRU R24 R26 R31						
0030	00002.000	EA		0972946-0075	RES FIX 2.7K OHM 5/8 .25 W CARBON FILM	ROH - R-25					
0030A					R8 R17						
0031	00001.000	EA		0972946-0012	RES FIX 6.2 OHM 5/8 .25 W CARBON FILM	ROH - R-25					
0031A					R15						
0032	00002.000	EA		0972946-0071	RES FIX 1.8K OHM 5/8 .25 W CARBON FILM	ROH - R-25					
0032A					R11 R27						
0033	00001.000	EA		0972946-0019	RES FIX 12.0 OHM 5/8 .25 W CARBON FILM	ROH - R-25					
0033A					R6						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ADAPTER, EPROM PERSONALITY											
APPRO. MFG. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0945132-0002 AA											

TEXAS INSTRUMENTS INCORPORATED		DATE 10/18/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0945132-0002		REV AA	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0034	0001.000	EA		0972947-0059	RES FIX 560 OHM 5/8 .5 W CARBON FILM	ROH - R-50					
0034A					R29						
0035	0001.000	EA		0972833-0088	RES FIXED 100 OHMS 2 WATT 5/8						
0035A					R25						
0036	0001.000	EA		0539795-0008	RES VAR CERMET 2.0 K OHMS 10 1/8 .75 WATT	BOU -3069P-1-202					
0036A					R3						
0037	00003.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 1/8 20 VOLT	QPL -M39003/1-2263					
0037A					C3 C5 C11						
0038	00002.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 1/8 15 VOLT	QPL -M39003/1-2271					
0038A					C2 C6						
0039	00001.000	EA		0972757-0003	CAP, FIXED CERAMIC 150 PF 100 50V	UC -C51C151K					
0039A					C4						
0040	00004.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0040A					C7 THRU C10						
0041	00001.000	EA		0972137-0005	CONNECTOR, PC 50 PIN	DEI - 65483-005					
0041A					J3						
0042	00001.000	EA		0972423-0001	CONN, PCB HEADER 2CRT						
0042A					J1						
0043	00001.000	EA		0972423-0006	CONN, UNIV PHD MTO, 4 CIRCUIT						
0043A					J2						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ADAPTER, EPROM PERSONALITY											
APPRO. MFG. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0945132-0002 AA											

TEXAS INSTRUMENTS INCORPORATED		DATE 10/18/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0945132-0002		REV AA	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0045	00004.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES						
0047	00006.000	EA		0411101-0058	LOCKWASHER #6 EXTERNAL TOOTH CRES	QPL - MS35335-58					
0049	00002.000	EA		0800482-0007	HEATSINK, NISTOR						
0050	00002.000	EA		0946646-0001	STANDOFF, MTG, LED						
0051	00000.200	FT		0538347-5099	WIRE HOOKUP B-18 AWG 19 STR BK/WH	JUD - HM0203					
0054	00001.000	EA		0946757-0001	COVER, OPENING, FRONT PANEL						
0060	00001.000	EA		0972833-0104	RES 270 OHM 2W 5% WIRE WOUND, FIXED	OHM -SERIES 22					
0060A					R28						
0061	00001.000	EA		0972833-0111	RES 400 OHM 2W 5% WIRE WOUND, FIXED	OHM -SERIES 22					
0061A					R16						
0063	00001.000	EA		0972959-0001	TRANSISTOR, 2N3055 NPN 70V 115N TO-3	TI - 2N3055					
0063A					Q6						
0064	00001.000	EA		0418036-0011	DIODE, 1N9728						
0064A					CR7						
0066	00002.000	EA		0802373-0007	INSULATOR, PLATE	018565-60-11-4511-164					
0069	00005.000	FT		2210083-0003	WIRE, ELEC, CCND U/L STYLE 1213, 24 AWG	090484-WTE24A					
0072	ADR	EA		0996069-0003	ADM. SOLID, THRMPLSTC 250 BAG ANAEROBIC	PERSAL-917-6302					
0073	00001.000	EA		0184262-0001	PAD, MOUNTING, TO-5, 4 LEAD, RED	THR - 7717-5					
0074	00004.000	EA		0803153-0029	NUT, SLEEVE, SHLDR, BRASS, 6-32X.125						
0075	00004.000	EA		0085936-0004	EYELET-ROLLED FLANGE	US -SE-25					
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ADAPTER, EPROM PERSONALITY											
APPRO. MFG. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0945132-0002 AA											

TEXAS INSTRUMENTS INCORPORATED		DATE 10/18/79		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0945132-0002		REV AA	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0076	00001.000	EA		0972947-0042	RES FIX 110 OHM 5/8 .5 W CARBON FILM	ROH - R-50					
0076A					R30						
0077	00001.000	EA		0411027-0814	WASHER, .406 ID X .812 OD X .065 THK FLAT	- MS15795-814					
0078	00001.000	EA		0411123-0073	KNOB-CONTROL, 1/4" RND PL POINTER BLACK	- MS91528-1P28					
0079	00001.000	EA		0972934-0004	DIODE, 1N749A 4.3 V 5% SIL VOLT REG	QPL - 1N749A					
0079A					CR8						
0080	00001.000	EA		2210471-0001	SWITCH, ROTARY, 2 VDC, 1.5 AMP	071590-SEE TI DWG					
0080A					S1						
0080B					PN 2210471-0002 MAY BE						
0080C					SUBSTITUTED.						
0081	00001.000	EA		0972250-0019	SWITCH, TOGGLE, SUBMINIATURE, DPDT	SEE TI- DRAWING					
0081A					S2						
0081B					PN 972250-0001 MAY BE USED						
0081C					AS AN ACCEPTABLE SUBSTITUTE						
0082	00001.000	EA		0972057-0001	TRANSISTOR-A5T222 NPN SILICON	TI- -A5T222					
0082A					Q7						
0083	00001.000	EA		0972946-0089	RES FIX 10K OHM 5/8 .25 W CARBON FILM	ROH - R-25					
0083A					R32						
0084	00001.000	EA		0418730-0118	WASHER-NYLON, .031 THK, .390 ID	080205-SEE TI DWG					
0085	00001.000	EA		0418730-0112	WASHER-NYLON, .031 THK, .265 ID	080205-SEE TI DWG					
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ADAPTER, EPROM PERSONALITY											
APPRO. MFG. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0945132-0002 AA											

- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES ARE PREFIXED WITH SN74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



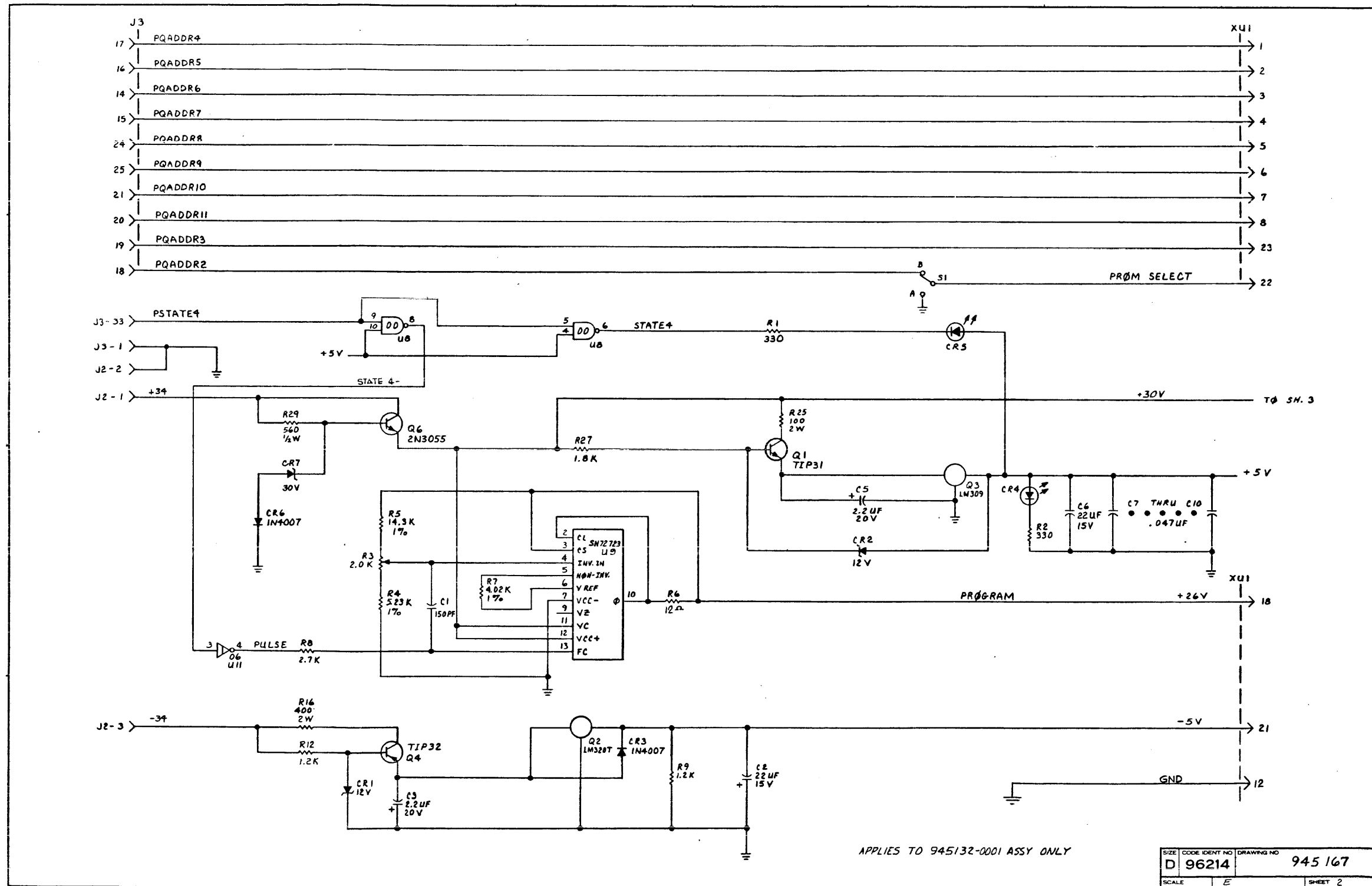
- 00 AND 04 = DEVICE TYPE
 4, 5 AND 6 = PIN NUMBERS
 U6 AND U10 = REFERENCE DESIGNATOR
5. ALL RESISTORS 1/4 WATT, ±5%
 6. SHEETS 2 AND 3 APPLY FOR 945132-0001 ASSY
 SHEETS 4 AND 5 APPLY FOR 945132-0002 ASSY

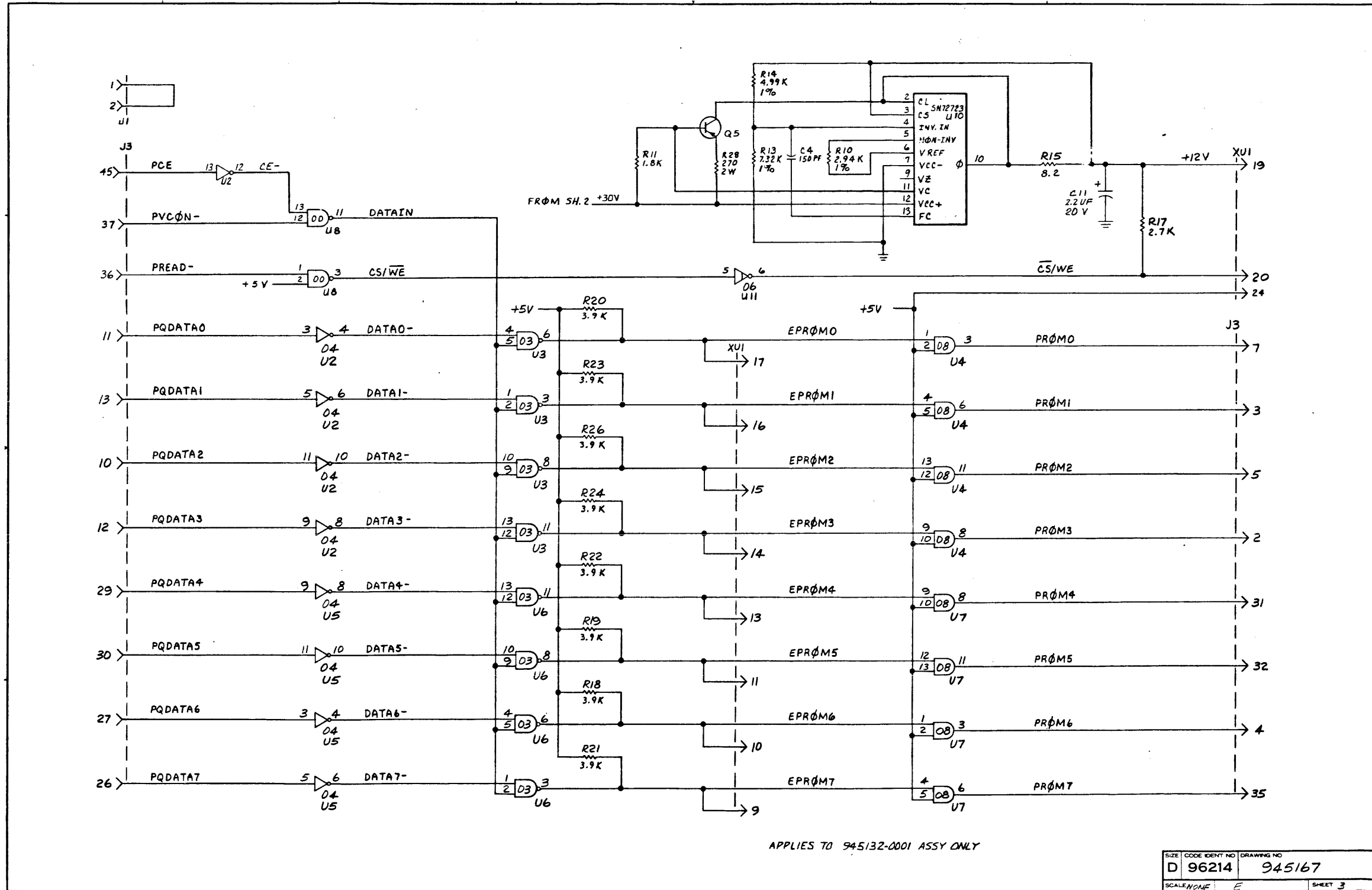
REVISIONS		
ZONE	LTR	DESCRIPTION
A		CU#11806 (C) L.A. ...
B		CU#49462 (C) ...
C		CU#17349 (C) ...
D		CU#20553 (C) L.T.H.E.
E		CU#27215 (B) ... ADDED SH445
F		CU#44263 (C) ...
G		CU#44880 (G) ...
H		CU#44833 (E) ...
D-2	J	CU#44275 (C) ...

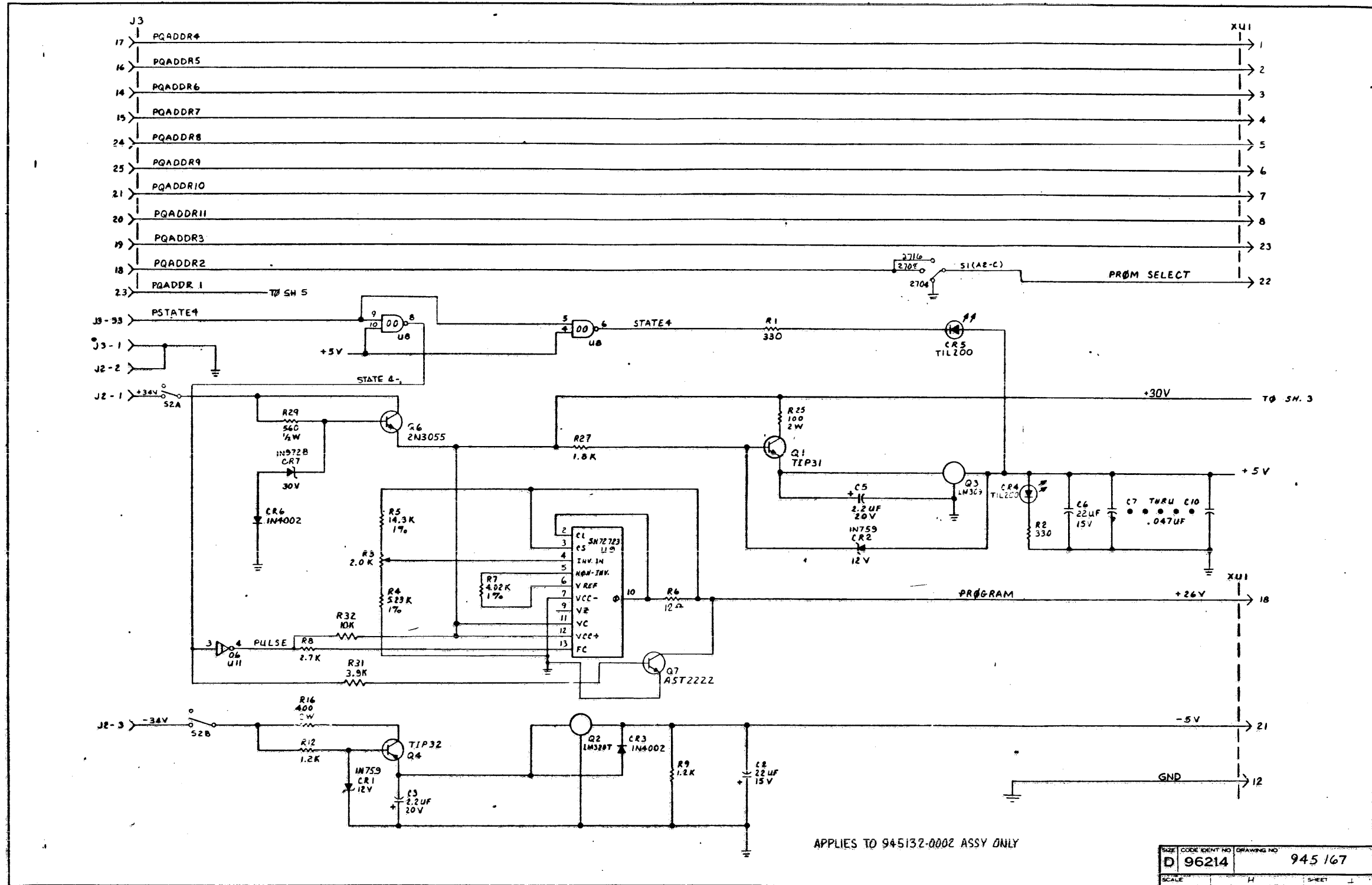
REV STATUS	REV	J	E	H	J
OF SHEETS	SH	1	2	3	4 5

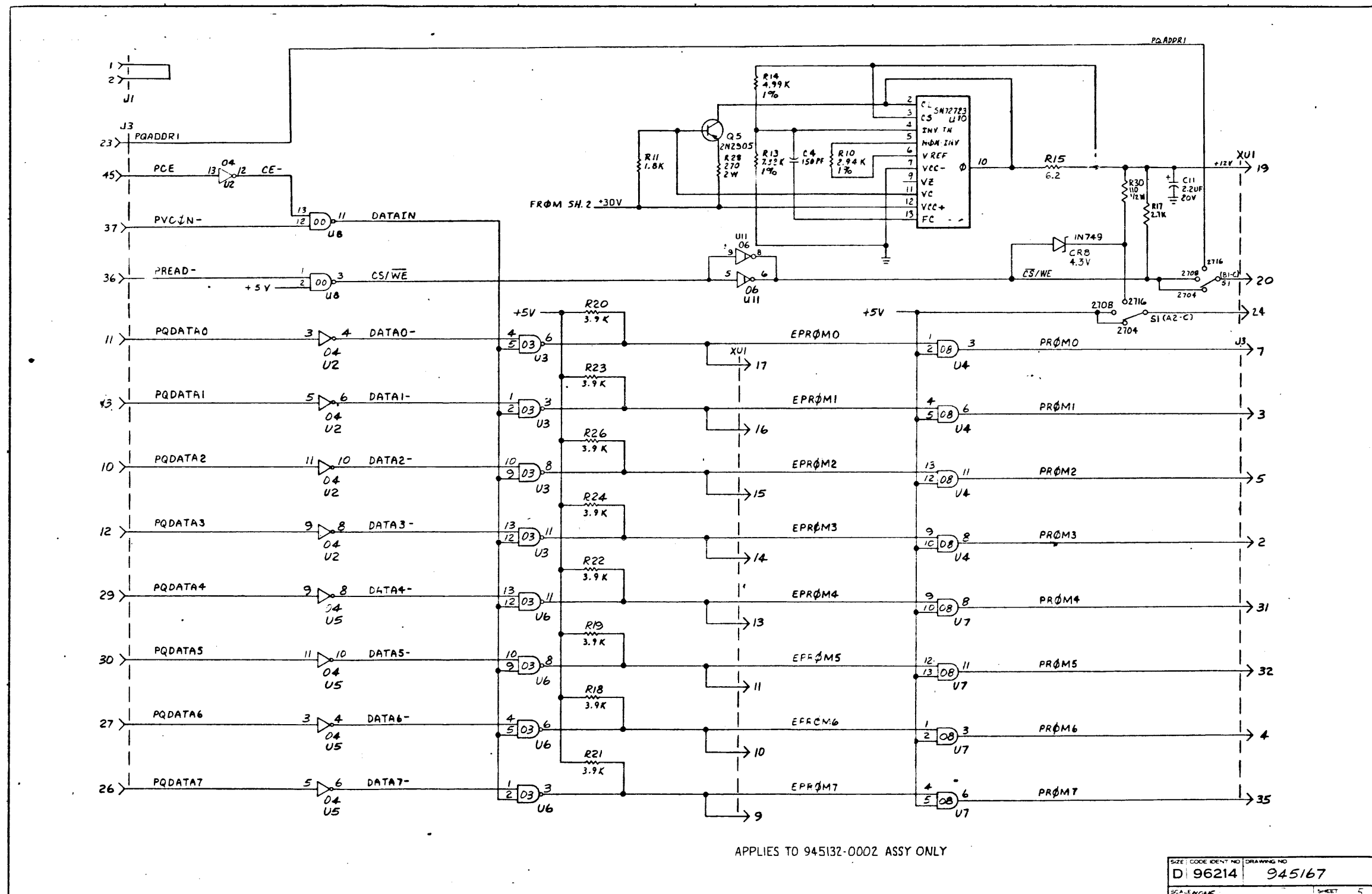
QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
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UNLESS OTHERWISE SPECIFIED REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS = .010 2 PLACE DECIMALS = .02		DWN: G. Gann 3/9/76 CHK: K. Keller 5-24-76 ENGR: H. Allen 5-25-76 QA: S. ... APD: ... CONTR NO: DESIGN ACTIVITY RELEASE: ... DATE: 5/25/76	TEXAS INSTRUMENTS Equipment Group Dallas, Texas LOGIC DIAGRAM, EPROM PERSONALITY CARD
HOLE TOLERANCE .013 + .004 THRU .125 - .001 .013 + .005 THRU .250 - .001 .013 + .008 THRU .750 - .001		.251 + .006 THRU .500 - .001 .251 + .008 THRU 1.000 - .001		945132 7506 NEXT ASSY USED ON APPLICATION	SIZE: D CODE IDENT NO: 96214 DRAWING NO: 945167 SCALE: NONE SHEET: 1 OF 5









APPLIES TO 945132-0002 ASSY ONLY

SIZE	CODE IDENT NO	DRAWING NO
D	96214	945167
SCALE	None	SHEET 5

NOTES: CONT

9 -0001 THRU -0005 ASSYS TO BE ADJUSTED TO 1920 CHARACTERS USING ITEM 50

10 -0006 THRU -0010 ASSYS TO BE ADJUSTED TO 960 CHARACTERS USING ITEM 50

11 TIE J10 AND P10 TO PREVENT POSSIBLE DAMAGE TO THE POWER SUPPLY AND LOGIC PCB. USING ITEM 46

12 GROUND WIRES CAN BE ATTACHED TO THE CHASSIS PER GROUNDING DETAIL ON SHEET 2 IF THE SCREENS ON THE PRESENT LOCATION STRIPS THE PLASTIC.

13. 972986-0011 MAY BE USED IN PLACE OF ITEM 40

14 REMOVE THE MOLDED CONNECTORS ON BOTH ENDS OF ITEM 21 ON -0003, -0004, -0008, AND -0009 UNITS. REMOVE OUTER JACKET AND STRIP AS REQUIRED TO COMPLETE INTERNAL WIRING. ATTACH ITEM 54 TO FREE END PER WIRING DETAIL SHEET 1.

15 ITEM 40 MAY BE REPLACED BY:
972386 BOLT
416222-0033 FLAT WASHER
41100-0073 LOCK WASHER

16 ITEM 18 MAY BE REPLACED BY:
972679-0020 SCREW
41033-003 FLAT WASHER

17 INSTALL ITEM 16 OVER ITEM 21. METALLICALLY CENTERED ON THE STRAIN RELIEF BUSHING AREA.

18 REMOVE CAPSCRETS FROM MONITOR MOUNTING BOSSSES PRIOR TO INSTALLING MONITOR

19 DISCARD RUBBER WASHER ON ITEM 21 FOR -0003, -0004, -0008 & -0009
NOTES CONT SH2

NOTES: CONT

QTY	P/N	DESCRIPTION
1	532348-0600	STRIP EXTENSION
1	416453-0022	NUT
2	41100-0071	WASHER
1	972988-0036	SCREW

NOTES: CONT

5 WHEN INSTALLING SOURCE 2 MONITOR, PROTECT WIRES BY BONDING ITEM 20 TO FLYBACK SHEET METAL USING ITEM 35.

6 DATA TO BE TYPED BY MANUFACTURING OR SYSTEM TEST ITEM 18 MAY BE REPLACED WITH P/N 972679-0033 IF ITEM 18 STRIPS PLASTIC.

NOTES:

1 INSTALL ITEM 39 APPROXIMATELY AS SHOWN.

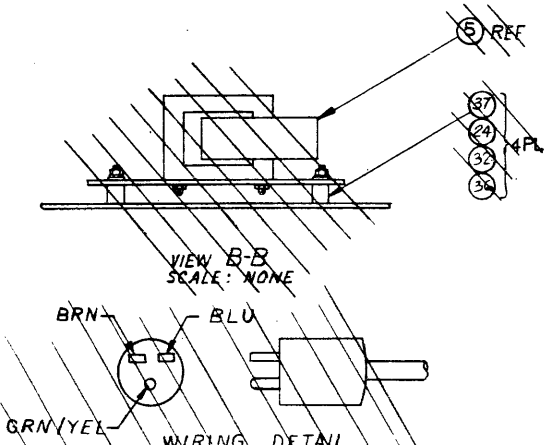
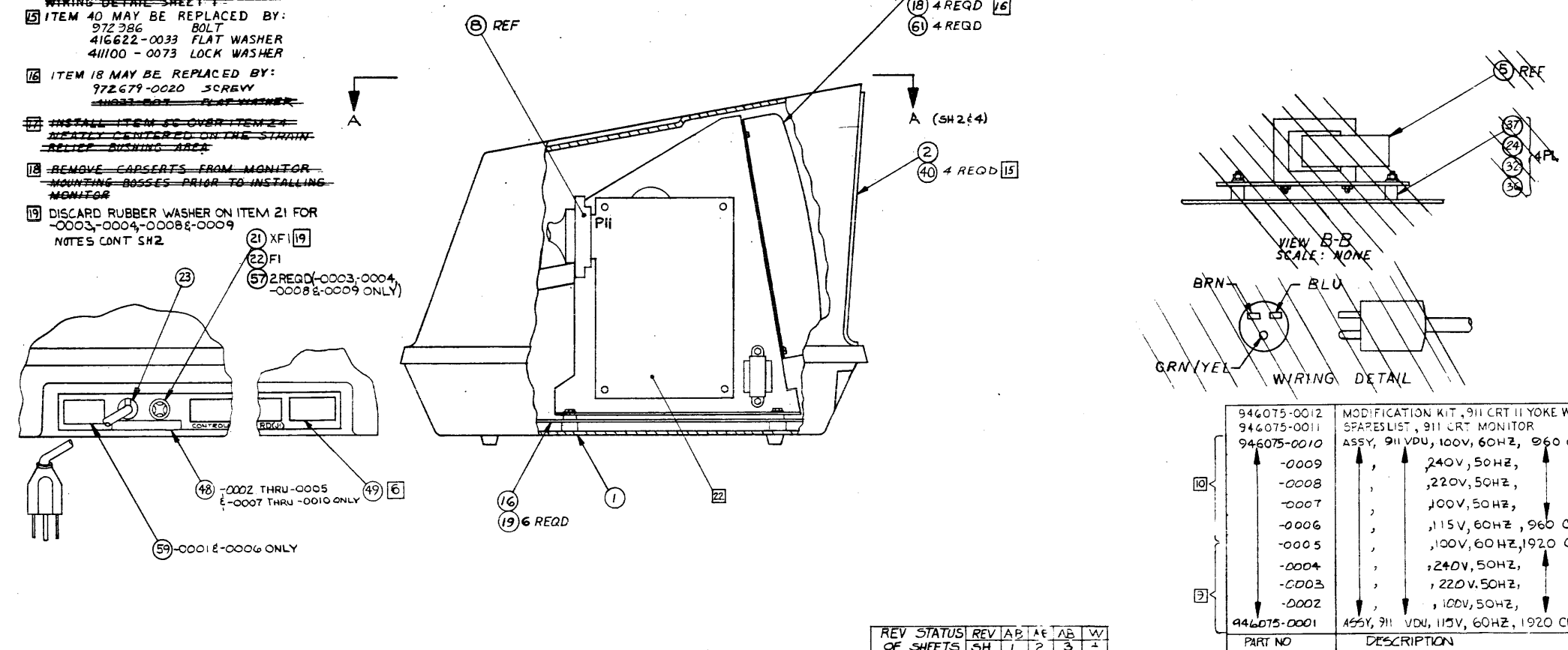
2 SOURCE 1 MONITOR IS SHOWN ON PARENT VIEW. SEE VIEW ON SHEET 3 FOR SOURCE 2 MONITOR

3 TO REPLACE ITEMS 13, 14 & 15 IN THE FIELD, USE TIE DOWN STRAPS (TI P/N 972632-0006) TWO PER CAPACITOR

4 TO REPLACE THE SPEAKER (S1), VOLUME (R1) OR BRIGHTNESS (R2) POTENTIOMETER OF ITEM B, USE ONE OF THE FOLLOWING KITS:
SPEAKER REPAIR KIT 946571-0001
BRIGHTNESS CONTROL REPAIR KIT 946569-0001
VOLUME CONTROL REPAIR KIT 946570-0001

REV	DESCRIPTION	DATE	APPROVED
A	CN421204 (D) C 240 (1) REVISED PER EXTENSIVE ENGR CHANGES	2-8-77	J. R. King
B	CN42148 (D) C 240 (1) REVISED PER EXTENSIVE ENGR CHANGES	6-3-77	J. R. King
C	CN420952 (6) C 240 (1) ADDED FLAG NOTES 9 AND 10 (2) REVISED DESCRIPTION BLOCK TO INCLUDE "1920 CHAR" ON ITEMS -0001 THRU -0005 (3) ADDED ITEM 50 TO -0001 THRU -0005 (4) CREATED -0006 THRU -0010 (5) REVISED TO INCLUDE -0007 THRU -0010.	6-3-77	J. R. King
D	CN421204 (1) C 240 (1) ADDED FLAG NOTES 11 & 12 (2) SH 2 ADDED ALTERNATE GND DETAIL VIEWS (3) ON L.M. QTY OF ITEM 39 WAS 6 (4) ON L.M.'S -0001 THRU -0010, P/N OF ITEM 40 WAS 972684-0018 (5) ADDED ITEMS 51 & 52	8/12/77	J. R. King

REVISIONS CONTINUE SH2



PART NO	DESCRIPTION
946075-0012	MODIFICATION KIT, 911 CRT II YOKE WIRES
946075-0011	SPARES LIST, 911 CRT MONITOR
946075-0010	ASSY, 911 VDU, 100V, 60HZ, 960 CHAR
-0009	↑ 240V, 50HZ, ↑
-0008	↑ 220V, 50HZ, ↑
-0007	↑ 100V, 50HZ, ↑
-0006	↑ 115V, 60HZ, 960 CHAR
-0005	↑ 100V, 60HZ, 1920 CHAR
-0004	↑ 240V, 50HZ, ↑
-0003	↑ 220V, 50HZ, ↑
-0002	↑ 100V, 50HZ, ↑
946075-0001	ASSY, 911 VDU, 110V, 60HZ, 1920 CHAR

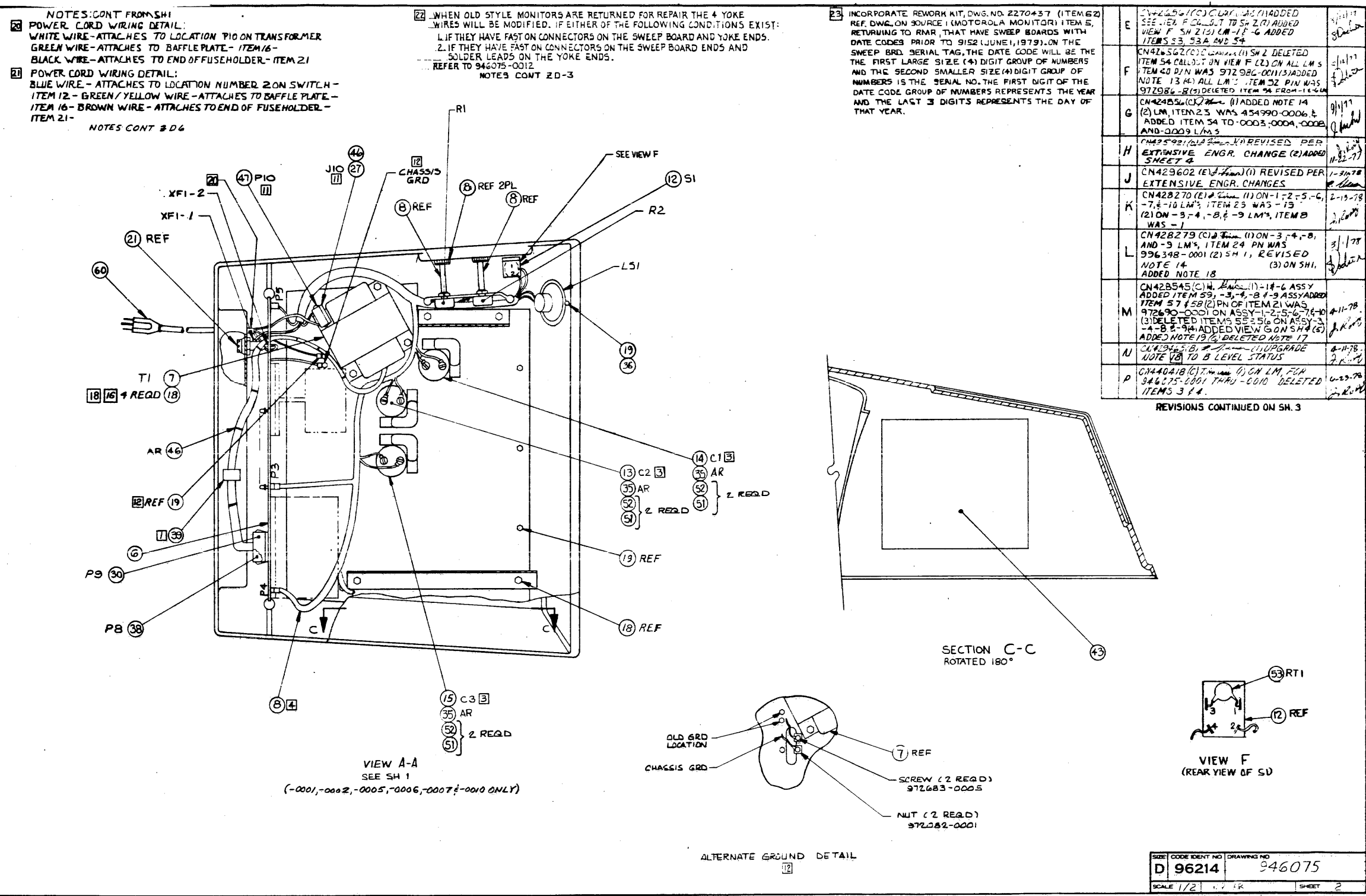
PROCESSES:
1. SOLDER PER F-127, METHOD 1

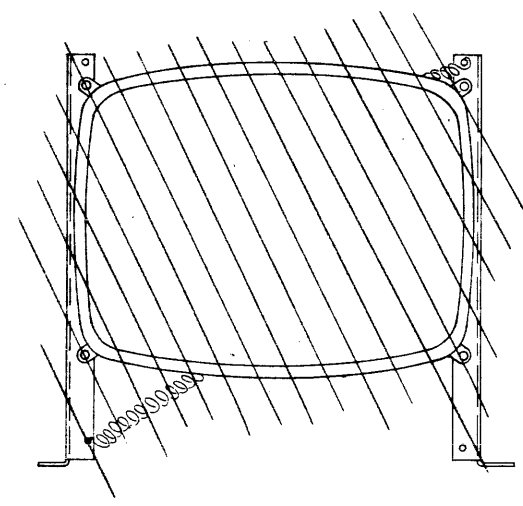
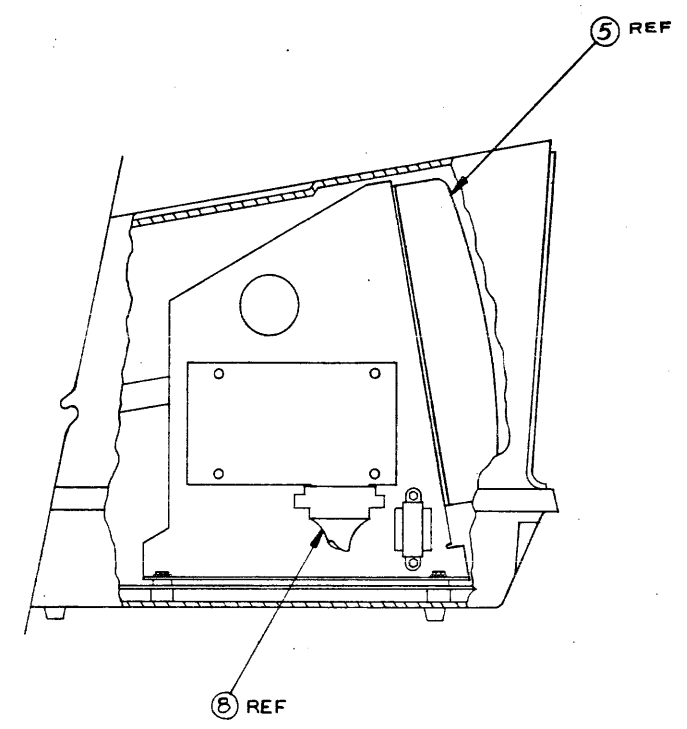
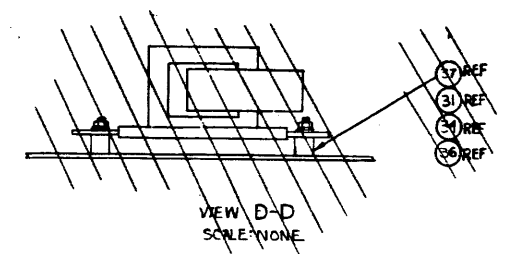
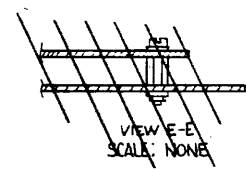
REV	STATUS	REV	AB	AE	AB	W
OF SHEETS	SH	1	2	3	4	5

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
			UNLESS OTHERWISE SPECIFIED • DIMENSIONS ARE IN INCHES • TOLERANCES - ANGLES ±1° 3 PLACE DECIMALS ± 0.03 2 PLACE DECIMALS ± 0.02 • INTERPRET DRAWING PER MIL-D-1000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS 0.015 FIM • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHETICAL INFO FOR REF ONLY		
			HOLE TOLERANCE 013 - 004 126 - 005 251 - 006 THRU - 001 THRU - 001 THRU - 001 125 - 001 250 - 001 500 - 001		
			936496 75.0		
			936497 75.0		
			936477 75.0		
			NEXT ASSY USED ON		
			APPLICATION		
			TEXAS INSTRUMENTS INCORPORATED Dallas, Texas		
			ASSEMBLY, 911 VDU		
			D 96214		
			946075		
			1/2		

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL	NOTES

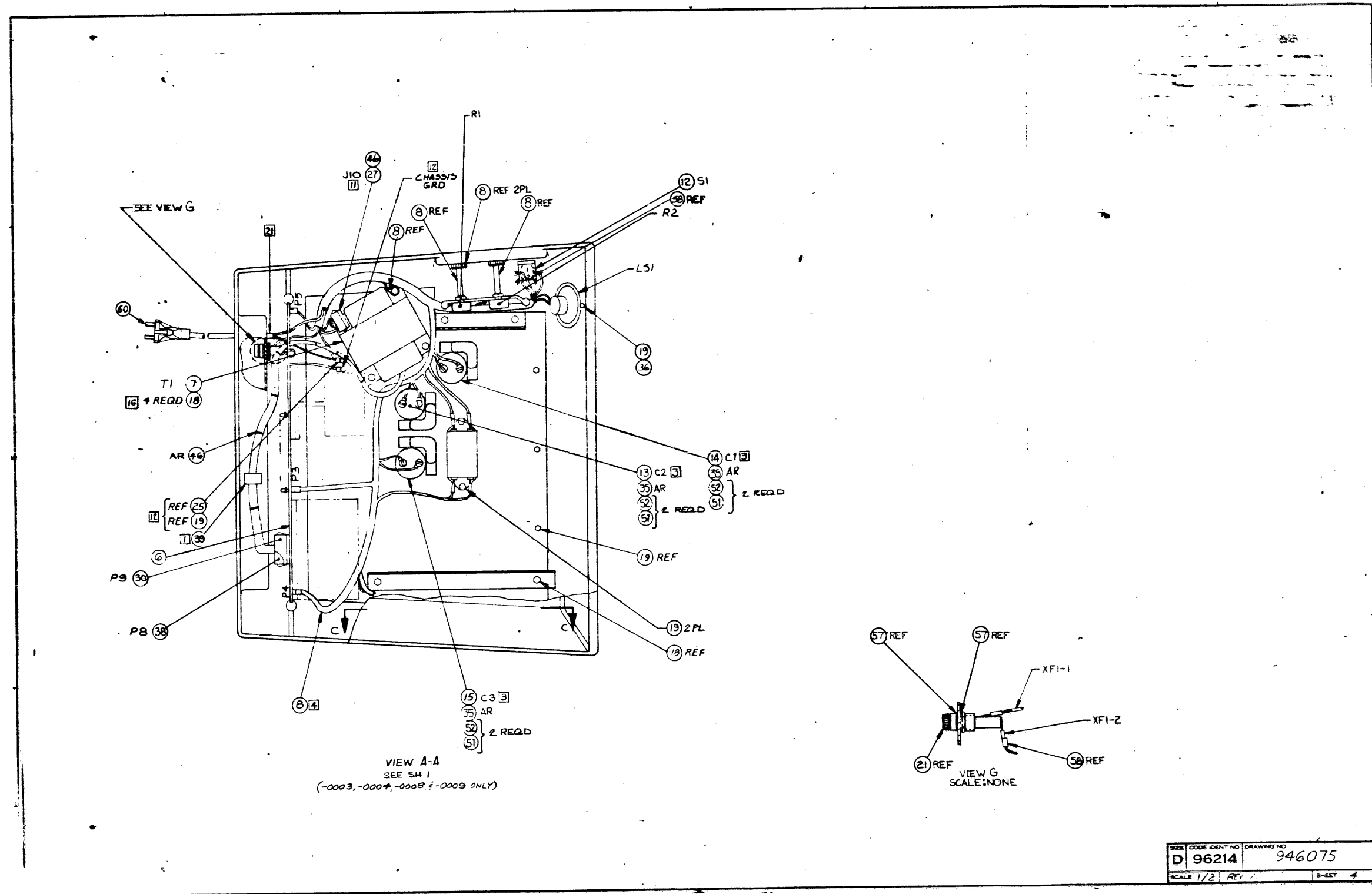
PROCESSES - FOR CORRELATION TO GOVT IND SPECIFICATIONS SEE DRAWING 729487





ZN/REV	DESCRIPTION	APPROVED
R	CN441703 (C) E. Motina (1) SH. 1. NOTE 11 READ THE J10 & P10 TO ONE OF THE TRANSFORMER MOUNTING BOSSES USING ITEM 44 (2) SH. 2. BALLOON 60 WAS 24. DELETED BALLOONS 25, 26 & 29 (3) ON LM 946075-0001. 2, 5, 6, 7 & 10. DELETE ITEMS 24, 25, 26 & 29. AND ADD ITEM 60	1-10-79 E. Wang
T	CN448449 (C) E. Motina (1) SH 4 ZNAB-3 CHANGED VIEW OF XF1-1	2-13-79 E. Wang
U	CN446476 (C) J. D. Sur (1) DELETED NOTE 18	5-23-79 E. Wang
V	CN442434 (E) J. D. Sur (1) UPDATED REV LEVEL BLOCK (2) DELETED FLAG NOTE 14 (3) DELETED WIRING DETAIL (4) REVISED PLUG Z-LB-SH 4 (5) DELETED ITEM 24, 25 & 26 (7) ADDED ITEM 60	8-22-79 E. Wang
W	CN447492 (E) J. D. Sur (1) ADDED FLAG NOTE 20 (2) ADDED FLAG NOTE 21 (3) UPDATED REV LEVEL BLOCK	8-22-79 E. Wang
Y	CN453591 (D) J. D. Sur (1) ADDED FLAG NOTE 22 (2) ADDED -0011 AND -0012 TO PN BLOCK (3) ADDED -0011 AND -0012 TO LM	1-4-80 J.R. 8/8
AA	CN456126 (B) J. D. Sur (1) ADDED ITEM 61 TO -0001 & -0010 LMS (2) SH 1 ZC-4 ADDED (6) & REQD TO STACK-UP (3) SH 1 DELETED PN 411027-807/FLAT WASHER FROM NOTE 16	2-29-80 E. Wang
AB	CN462217 (D) J. D. Sur (1) ADDED NOTE 23 & RESP FLAG TO ITEM 5 ON F/D (2) ADDED ITEM 62 TO LML-1 THRU-10	2-29-80 E. Wang

SIZE	CODE IDENT NO	DRAWING NO
D	96214	946075
SCALE	1/2	SHEET 3



TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0946075-0001		REV AB	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0948562-0001	BASE, 713						
0002	00001.000	EA		0948563-0001	ASSEMBLY, 713 TOP COVER						
0005	00001.000	EA		0948572-0002	911 VIDEO DISPLAY UNIT MONITOR						
0006	00001.000	EA		0946084-0001	911 DOMESTIC P/S-LOGIC BOARD						
0007	00001.000	EA		0946081-0002	713 CRT XFMR, PMR (DOMESTIC) 115VAC 57/63H						
0007A					TI						
0008	00001.000	EA		0948568-0001	WIRING HARNESS, 911, 100V & 115V						
0012	00001.000	EA		0972248-0002	SWITCH, ROCKER- DPST 15 AMPERE 250 VAC	073559-TIG511SBLXTE1					
0012A					S1						
0013	00001.000	EA		0972050-0003	CAPACITOR, AL-40 C TC +65 C 16,000MF 30V	SEE - TI DRAWING					
0013A					C2						
0014	00001.000	EA		0230972-9001	CAP 6000. MF 20V CASE 1-3/8X2-1/8IN.	MAL -CGS6020020K2C3					
0014A					C1						
0015	00001.000	EA		0230964-5001	CAP 2400. MF 50V CASE 1-3/8X2-1/8IN.	MAL -CGS2420050R2C3					
0015A					C3						
0016	00001.000	EA		0948608-0001	PLATE, BAFFLE						
0018	00008.000	EA		0996740-0015	SEMS SCREW, 8-16X5/8 THD FORMING SLT HEX	-PLASTITE					
0019	00007.000	EA		0972679-0012	SCREW # 6-19 X 3/8 SLOTTED HEX						
0021	00001.000	EA		0232092-0003	HOLDER FUSE HKP-HH	BUS -HKP-HH					
0021A					XF1						
DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 115V 60HZ, 1920 CHAR				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7510	PART NUMBER	LM 0946075-0001	REV	AB

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0946075-0001		REV AB	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0022	00001.000	EA		0410822-0019	FUSE 1.0 A 250V SLCM BLOW UL-APPVD	BUS - MCL					
0022A					F1						
0023	00001.000	EA		0454990-0006	BUSHING, STRAIN-RELIEF, CABLE						
0027	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CRT						
0027A					J10						
0030	00001.000	EA		0972574-0007	HOUSING, CONN, PLUG, LOCKING 4 CONTACTS	AMP --1-480702-0					
0030A					P9						
0035	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0036	00001.000	EA		0411027-0806	WASHER, #6 FLAT, CRES., .156 X .375 X .049	GPL - MS15795-806					
0038	00001.000	EA		0972574-0006	HOUSING, CONN PLUG, LOCKING 3 CONTACTS						
0038A					P8						
0039	00001.000	EA		0972741-0002	CLAMP, CBL, PLASTIC, SELF-ADHESIVE,						
0040	00004.000	EA		0996739-0035	SEMS MACHINE SCREW, 10-32X1/2 SLOT HEX HD						
0043	00001.000	EA		0936480-0001	LABEL, MONITOR						
0044	REF	EA		0936471-9901	WIRING DIAGRAM, 713						
0045	REF	EA		0936470-9901	WIRE LIST, 911 WIRING HARNESS, 115V						
0046	00014.000	EA		0972632-0001	STRAP, TIE UCM, CABLE-MCN-STD, 0-1-1/4 D.						
0047	00001.000	EA		0972574-0001	HOUSING, CONN, PLUG, LOCKING, 6 CONTACTS						
0047A					P10						
0049	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO						
DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 115V 60HZ, 1920 CHAR				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 0946075-0001	REV	AB

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0946075-0001		REV AB	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0050	REF	EA		0938817-9901	PROCEDURE, 911 VDU, FINAL TEST						
0051	00006.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0052	00006.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES						
0053	00001.000	EA		0972808-0001	THERMISTOR, DISC, 5 OHM						
0053A					RT1						
0059	00001.000	EA		0936467-0001	PLATE, IDENTIFICATION, 911 VDU						
0060	00001.000	EA		0975522-0003	CABLE ASSY, POWER CORD						
0061	00004.000	EA		0411101-0059	LOCKWASHER # 8 EXTERNAL TOOTH CRES	GPL - MS35335-59					
0062	00000.000	EA		2270437-0001	MEWORK, FLYBACK AND SWEEP BOARD ASSY						
DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 115V 60HZ, 1920 CHAR				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 0946075-0001	REV	AB

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0946075-0002		REV AB	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0948562-0001	BASE, 713						
0002	00001.000	EA		0948563-0001	ASSEMBLY, 713 TOP COVER						
0005	00001.000	EA		0948572-0002	911 VIDEO DISPLAY UNIT MONITOR						
0006	00001.000	EA		0946084-0002	911 INTRNAT. POWER SUPPLY/LOGIC BOARD						
0007	00001.000	EA		0946082-0002	911 CRT XFMR, PMR, 100/200, 120/240VAC						
0007A					TI						
0008	00001.000	EA		0948568-0001	WIRING HARNESS, 911, 100V & 115V						
0012	00001.000	EA		0972248-0002	SWITCH, ROCKER- DPST 15 AMPERE 250 VAC	073559-TIG511SBLXTE1					
0012A					S1						
0013	00001.000	EA		0972050-0003	CAPACITOR, AL-40 C TC +65 C 16,000MF 30V	SEE - TI DRAWING					
0013A					C2						
0014	00001.000	EA		0230972-9001	CAP 6000. MF 20V CASE 1-3/8X2-1/8IN.	MAL -CGS6020020K2C3					
0014A					C1						
0015	00001.000	EA		0230964-5001	CAP 2400. MF 50V CASE 1-3/8X2-1/8IN.	MAL -CGS2420050K2C3					
0015A					C3						
0016	00001.000	EA		0948608-0001	PLATE, BAFFLE						
0018	00008.000	EA		0996740-0015	SEMS SCREW, 8-16X5/8 THD FORMING SLT HEX	-PLASTITE					
0019	00007.000	EA		0972679-0012	SCREW # 6-19 X 3/8 SLOTTED HEX						
0021	00001.000	EA		0232092-0003	HOLDER FUSE HKP-HH	BUS -HKP-HH					
0021A					XF1						
DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 100V 50HZ, 1920 CHAR				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 0946075-0002	REV	AB

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0946075-0002		REV AB	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0022	00001.000	EA		0410822-0019	FUSE 1-0 A 250V SLCW BLOW UL-APPVD	BUS - MDL			
0022A					F1				
0023	00001.000	EA		0454990-0006	BUSHING, STRAIN-RELIEF, CABLE				
0027	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT				
0027A					J10				
0030	00001.000	EA		0972574-0007	HOUSING, CONN, PLUG, LOCKING 4 CONTACTS	AMP --1-480702-0			
0030A					P9				
0035	AK	EA		0996069-0003	ADM, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302			
0036	00001.000	EA		0411027-0806	WASHER, #6 FLAT, CRES., .156 X .375 X .049	GPL - MS15795-806			
0038	00001.000	EA		0972574-0006	HOUSING, CONN, PLUG, LOCKING 3 CONTACTS				
0038A					P8				
0039	00001.000	EA		0972741-0002	CLAMP, CBL, PLASTIC, SELF-ADHESIVE,				
0040	00004.000	EA		0996739-0035	SEMS MACHINE SCREW, 10-32X1/2 SLOT HEXHD				
0043	00001.000	EA		0936480-0001	LABEL, MONITOR				
0044	REF	EA		0936471-9901	WIRING DIAGRAM, 713				
0045	REF	EA		0936482-9901	WIRE LIST, 911, 100V				
0046	00014.000	EA		0972632-0001	STRAP, TIE DOWN, CABLE-NON-STD, 0-1-1/4 D.				
0047	00001.000	EA		0972574-0001	HOUSING, CONN, PLUG, LOCKING, 6 CONTACTS				
0047A					P10				
0048	00001.000	EA		0936487-0001	PHR LABEL, 100V				
DRAFTSMAN: DATE: CDD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY, 911 VDU, 100V 50HZ, 1920 CHAR APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM 0946075-0002 REV: AB									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0946075-0002		REV AB	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0049	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO				
0050	REF	EA		0938817-9901	PROCEDURE, 911 VDU, FINAL TEST				
0051	00006.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES				
0052	00006.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES				
0053	00001.000	EA		0972808-0001	THERMISTOR, DISC, 5 OHM				
0053A					RT1				
0060	00001.000	EA		0975522-0003	CABLE ASSY, POWER CORD				
0061	00004.000	EA		0411101-0059	LOCKWASHER # 8 EXTERNAL TOOTH CRES	GPL - MS35335-59			
0062	00000.000	EA		2270437-0001	REMOVK, FLYBACK AND SWEEP BOARD ASSY				
DRAFTSMAN: DATE: CDD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY, 911 VDU, 100V 50HZ, 1920 CHAR APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM 0946075-0002 REV: AB									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0946075-0003		REV AB	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		0948562-0001	BASE, 713				
0002	00001.000	EA		0948563-0001	ASSEMBLY, 713 TOP COVER				
0005	00001.000	EA		0948572-0002	911 VIDEO DISPLAY UNIT MONITOR				
0006	00001.000	EA		0946084-0002	911 INTANAT. POWER SUPPLY/LOGIC BOARD				
0007	00001.000	EA		0946082-0002	911 CRT XFMR, PHR, 100/200, 120/240VAC				
0007A					T1				
0008	00001.000	EA		0948568-0002	WIRING HARNESS, 911, 220V & 240V				
0012	00001.000	EA		0972248-0002	SWITCH, ROCKER-DPST 15 AMPERE 250 VAC	073559-TIG5118BLATE1			
0012A					S1				
0013	00001.000	EA		0972050-0003	CAPACITOR, AL-40 C TO #65 C 16,000MF 30V	SEE - TI DRAWING			
0013A					C2				
0014	00001.000	EA		0230972-9001	CAP 6000. MF 20V CASE 1-3/8X2-1/8IN	MAL -CGS6020020K2C3			
0014A					C1				
0015	00001.000	EA		0230964-5001	CAP 2400. MF 50V CASE 1-3/8X2-1/8IN	MAL -CGS2420050K2C3			
0015A					C3				
0016	00001.000	EA		0948608-0001	PLATE, BAFFLE	-PLASTITE			
0018	00008.000	EA		0996740-0015	SEMS SCREW, #8-16X5/8 THD FORMING SLT HEX				
0019	00009.000	EA		0972679-0012	SCREW # 6-19 X 3/8 SLOTTED HEX				
0021	00001.000	EA		0996367-0001	FUSEHOLDER, 3 AG	075915-345001			
0021A					XF1				
DRAFTSMAN: DATE: CDD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY, 911 VDU, 220V 50HZ, 1920 CHAR APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM 0946075-0003 REV: AB									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0946075-0003		REV AB	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0022	00001.000	EA		0410822-0014	FUSE .500 A 250V SLCW BLOW UL-APPVD	BUS - MDL			
0022A					F1				
0023	00001.000	EA		0454990-0006	BUSHING, STRAIN-RELIEF, CABLE				
0027	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT				
0027A					J10				
0030	00001.000	EA		0972574-0007	HOUSING, CONN, PLUG, LOCKING 4 CONTACTS	AMP --1-480702-0			
0030A					P9				
0035	AR	EA		0996069-0003	ADM, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302			
0036	00001.000	EA		0411027-0806	WASHER, #6 FLAT, CRES., .156 X .375 X .049	GPL - MS15795-806			
0038	00001.000	EA		0972574-0006	HOUSING, CONN, PLUG, LOCKING 3 CONTACTS				
0038A					P8				
0039	00001.000	EA		0972741-0002	CLAMP, CBL, PLASTIC, SELF-ADHESIVE,				
0040	00004.000	EA		0996739-0035	SEMS MACHINE SCREW, 10-32X1/2 SLOT HEXHD				
0043	00001.000	EA		0936480-0001	LABEL, MONITOR				
0044	REF	EA		0936471-9901	WIRING DIAGRAM, 713				
0045	REF	EA		0936483-9901	WIRE LIST, 911, 220V				
0046	00014.000	EA		0972632-0001	STRAP, TIE DOWN, CABLE-NON-STD, 0-1-1/4 D.				
0048	00001.000	EA		0936487-0002	PHR LABEL, 220V				
0049	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO				
0050	REF	EA		0938817-9901	PROCEDURE, 911 VDU, FINAL TEST				
DRAFTSMAN: DATE: CDD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY, 911 VDU, 220V 50HZ, 1920 CHAR APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM 0946075-0003 REV: AB									

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0946075-0003		REV AB		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0051	00006.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0052	00006.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES							
0057	00002.000	EA		0410894-0050	WASHER, 1/2 .527 ID .863 OD, LOCK INT TH	078189-1724-00						
0060	00001.000	EA		2262122-0003	CABLE ASSY, POWER CORD, EUROPEAN, 911							
0061	00004.000	EA		0411101-0059	LOCKWASHER # 8 EXTERNAL TOOTH CRES	QPL - MS35335-59						
0062	00000.000	EA		2270437-0001	REWORK, FLYBACK AND SWEEP BOARD ASSY							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 220V 50HZ, 1920 CHAR				
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM 0946075-0003				
								REV AB				

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0946075-0004		REV AB		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0948562-0001	BASE, 713							
0002	00001.000	EA		0948563-0001	ASSEMBLY, 713 TOP COVER							
0005	00001.000	EA		0948572-0002	911 VIDEO DISPLAY UNIT MONITOR							
0006	00001.000	EA		0946084-0002	911 INTRNAT. POWER SUPPLY/LOGIC BOARD							
0007	00001.000	EA		0946082-0002	911 CRT XFMR, PWR, 100/200, 120/240VAC							
0007A					T1							
0008	00001.000	EA		0948568-0002	WIRING HARNESS, 911, 220V & 240V							
0012	00001.000	EA		0972248-0002	SWITCH, ROCKER-DPST 15 AMPERE 250 VAC	073559-TIGS11SBLXTEL						
0012A					S1							
0013	00001.000	EA		0972050-0003	CAPACITOR, AL-40 C TG +65 C 16,000MF 30V	SEE - TI DRAWING						
0013A					C2							
0014	00001.000	EA		0230972-9001	CAP 6000. MF 20V CASE 1-3/8X2-1/8IN.	MAL -CGS602U020R2C3						
0014A					C1							
0015	00001.000	EA		0230964-5001	CAP 2400. MF 50V CASE 1-3/8X2-1/8IN.	MAL -CGS242U050R2C3						
0015A					C3							
0016	00001.000	EA		0948608-0001	PLATE, BAFFLE							
0018	00008.000	EA		0996740-0015	SEMS SCREW, 8-16X5/8 THD FORMING SLT HEX	-PLASTITE						
0019	00009.000	EA		0972679-0012	SCREW # 6-15 X 3/8 SLOTTED HEX							
0021	00001.000	EA		0996367-0001	FUSEHOLDER, 3 AG	075915-345001						
0021A					XF1							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 240V 50HZ, 1920 CHAR				
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM 0946075-0004				
								REV AB				

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0946075-0004		REV AB		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0022	00001.000	EA		0410822-0014	FUSE .500 A 250V SLOW BLOW UL-APVVD	BUS - MDL						
0022A					F1							
0023	00001.000	EA		0456990-0006	BUSHING, STRAIN-RELIEF, CABLE							
0027	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT							
0027A					J10							
0030	00001.000	EA		0972574-0007	HOUSING, CONN, PLUG, LOCKING 4 CONTACTS	AMP -1-480702-0						
0030A					P9							
0035	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302						
0036	00001.000	EA		0411027-0806	WASHER, #6 FLAT, CRES, .156 X .375 X .049	CPL - MS15799-806						
0038	00001.000	EA		0972574-0006	HOUSING, CONN PLUG, LOCKING 3 CONTACTS							
0038A					P8							
0039	00001.000	EA		0972741-0002	CLAMP, CBL, PLASTIC, SELF-ADHESIVE,							
0040	00004.000	EA		0996739-0035	SEMS MACHINE SCREW, 10-32X1/2 SLOT HEXHD							
0043	00001.000	EA		0936480-0001	LABEL, MONITOR							
0044	REF	EA		0936471-9901	WIRING DIAGRAM, 713							
0045	REF	EA		0936484-9901	WIRE LIST, 911, 240V							
0046	00014.000	EA		0972632-0001	STRAP, TIE DOWN, CABLE-NON-STD, 0-1-1/4 D.							
0048	00001.000	EA		0936487-0003	PWR LABEL, 240V							
0049	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO							
0050	REF	EA		0938817-9901	PROCEDURE, 911 VDU, FINAL TEST							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 240V 50HZ, 1920 CHAR				
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM 0946075-0004				
								REV AB				

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0946075-0004		REV AB		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0051	00006.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0052	00006.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES							
0057	00002.000	EA		0410894-0050	WASHER, 1/2 .527 ID .863 OD, LOCK INT TH	078189-1724-00						
0060	00001.000	EA		2262122-0003	CABLE ASSY, POWER CORD, EUROPEAN, 911							
0061	00004.000	EA		0411101-0059	LOCKWASHER # 8 EXTERNAL TOOTH CRES	QPL - MS35335-59						
0062	00000.000	EA		2270437-0001	REWORK, FLYBACK AND SWEEP BOARD ASSY							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 240V 50HZ, 1920 CHAR				
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM 0946075-0004				
								REV AB				

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946075-0005		REV AB	
DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		0948562-0001	BASE, 713				
0002	00001.000	EA		0948563-0001	ASSEMBLY, 713 TOP COVER				
0005	00001.000	EA		0948572-0002	911 VIDEO DISPLAY UNIT MONITOR				
0006	00001.000	EA		0946084-0002	911 INTRNAT. POWER SUPPLY/LOGIC BOARD				
0007	00001.000	EA		0946082-0002	911 CRT XFMR, PHM, 100/200, 120/240VAC				
0007A					T1				
0008	00001.000	EA		0948568-0001	WIRING HARNESS, 911, 100V & 115V				
0012	00001.000	EA		0972248-0002	SWITCH, ROCKER-DPST 15 AMPERE 250 VAC	073559-TIG511SBLXTE1			
0012A					S1				
0013	00001.000	EA		0972050-0003	CAPACITOR, AL-40 C TO +65 C 10,000MF 30V	SEE - TI DRAWING			
0013A					C2				
0014	00001.000	EA		0230972-9001	CAP 6000. MF 20V CASE 1-3/8X2-1/8IN.	MAL		-CGS6020020R2C3	
0014A					C1				
0015	00001.000	EA		0230964-5001	CAP 2400. MF 50V CASE 1-3/8X2-1/8IN.	MAL		-CGS2420050R2C3	
0015A					C3				
0016	00001.000	EA		0948608-0001	PLATE, BAFFLE				
0018	00008.000	EA		0996740-0015	SEMS SCREW, #16X5/8 THD FORMING SLT HEX	-PLASTITE			
0019	00007.000	EA		0972679-0012	SCREW # 6-19 X 3/8 SLOTTED HEX				
0021	00001.000	EA		0232092-0003	HOLDER FUSE HKP-HH	BUS -HKP-HH			
0021A					XF1				
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 100V 60HZ, 1920 CHAR	
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946075-0005	
								REV AB	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946075-0005		REV AB	
DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0022	00001.000	EA		0410822-0019	FUSE 1.0 A 250V SLOW BLOW UL-APPVD	BUS - MDL			
0022A					F1				
0023	00001.000	EA		0454990-0006	BUSHING, STRAIN-RELIEF, CABLE				
0027	00001.000	EA		0972575-0001	CONNECTOR CAP, 4 CRT				
0027A					J10				
0030	00001.000	EA		0972574-0007	HOUSING, CONN, PLUG, LOCKING 4 CONTACTS	AMP -1-440702-0			
0030A					P9				
0035	AR	EA		0996069-0003	ADH, SOLID, THERMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302			
0036	00001.000	EA		0411027-0806	WASHER, #6 FLAT, CRES, .156 X .375 X .049	QPL - MS15795-806			
0038	00001.000	EA		0972574-0006	HOUSING, CONN, PLUG, LOCKING 3 CONTACTS				
0038A					P8				
0039	00001.000	EA		0972741-0002	CLAMP, CBL, PLASTIC, SELF-ADHESIVE				
0040	00004.000	EA		0996739-0035	SEMS MACHINE SCREW, 10-32X1/2 SLOT HEXHD				
0043	00001.000	EA		0936480-0001	LABEL, MONITOR				
0044	REF	EA		0936471-9901	WIRING DIAGRAM, 713				
0045	REF	EA		0936482-9901	WIRE LIST, 911, 100V				
0046	00001.000	EA		0972632-0001	STRAP, TIE DOWN, CABLE-NON-STD, 0-1-1/4 D.				
0047	00001.000	EA		0972574-0001	HOUSING, CONN, PLUG, LOCKING, 6 CONTACTS				
0047A					P10				
0048	00001.000	EA		0936487-0004	POWER LABEL, 713 VDU, 100V, 60HZ 1 AMP				
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 100V 60HZ, 1920 CHAR	
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946075-0005	
								REV AB	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946075-0005		REV AB	
DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0049	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO				
0050	REF	EA		0938817-9901	PROCEDURE, 911 VDU, FINAL TEST				
0051	00006.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES				
0052	00006.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES				
0053	00001.000	EA		0972808-0001	THERMISTOR, DISC, 5 OHM				
0053A					RT1				
0060	00001.000	EA		0975522-0003	CABLE ASSY, POWER CORD				
0061	00004.000	EA		0411101-0059	LOCKWASHER # 8 EXTERNAL TOOTH CRES	QPL - MS35335-59			
0062	00000.000	EA		2270437-0001	NETWORK, FLYBACK AND SWEEP BOARD ASSY				
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 100V 60HZ, 1920 CHAR	
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946075-0005	
								REV AB	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946075-0006		REV AB	
DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		0948562-0001	BASE, 713				
0002	00001.000	EA		0948563-0001	ASSEMBLY, 713 TOP COVER				
0005	00001.000	EA		0948572-0002	911 VIDEO DISPLAY UNIT MONITOR				
0006	00001.000	EA		0946084-0001	911 DOMESTIC P/S-LOGIC BOARD				
0007	00001.000	EA		0946081-0002	713 CRT XFMR, PHM (DOMESTIC) 115VAC 57/63H				
0007A					T1				
0008	00001.000	EA		0948568-0001	WIRING HARNESS, 911, 100V & 115V				
0012	00001.000	EA		0972248-0002	SWITCH, ROCKER-DPST 15 AMPERE 250 VAC	073559-TIG511SBLXTE1			
0012A					S1				
0013	00001.000	EA		0972050-0003	CAPACITOR, AL-40 C TO +65 C 10,000MF 30V	SEE - TI DRAWING			
0013A					C2				
0014	00001.000	EA		0230972-9001	CAP 6000. MF 20V CASE 1-3/8X2-1/8IN.	MAL		-CGS6020020R2C3	
0014A					C1				
0015	00001.000	EA		0230964-5001	CAP 2400. MF 50V CASE 1-3/8X2-1/8IN.	MAL		-CGS2420050R2C3	
0015A					C3				
0016	00001.000	EA		0948608-0001	PLATE, BAFFLE				
0018	00008.000	EA		0996740-0015	SEMS SCREW, #16X5/8 THD FORMING SLT HEX	-PLASTITE			
0019	00007.000	EA		0972679-0012	SCREW # 6-19 X 3/8 SLOTTED HEX				
0021	00001.000	EA		0232092-0003	HOLDER FUSE HKP-HH	BUS -HKP-HH			
0021A					XF1				
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 115V 60HZ, 960 CHAR	
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946075-0006	
								REV AB	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946075-0006		REV AB		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0022	00001.000	EA		0410822-0019	FUSE 1.0 A 250V SLOW BLOW UL-APPVD	BUS - MDL				
0022A					F1					
0023	00001.000	EA		0454990-0006	BUSHING, STRAIN-RELIEF, CABLE					
0027	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT					
0027A					J10					
0030	00001.000	EA		0972574-0007	HOUSING, CONN, PLUG, LOCKING 4 CONTACTS	AMP - 1-480702-0				
0030A					P9					
0035	AR	EA		0996069-0003	ADM, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302				
0036	00001.000	EA		0411027-0806	WASHER, #6 FLAT, CRES, .156 X .375 X .049	QPL - MS15795-806				
0038	00001.000	EA		0972574-0006	HOUSING, CONN PLUG, LOCKING 3 CONTACTS					
0038A					P8					
0039	00001.000	EA		0972741-0002	CLAMP, CBL, PLASTIC, SELF-ADHESIVE,					
0040	00004.000	EA		0996739-0035	SEMS MACHINE SCREW, 10-32X1/2 SLOT HEXHD					
0043	00001.000	EA		0936480-0001	LABEL, MONITOR					
0044	REF	EA		0936471-9901	WIRING DIAGRAM, 713					
0045	REF	EA		0936470-9901	WIRE LIST, 911 WIRING HARNESS, 115V					
0046	00014.000	EA		0972632-0001	STRAP, TIE DOWN, CABLE-NON-STD, 0-1-1/4 D.					
0047	00001.000	EA		0972574-0001	HOUSING, CONN, PLUG, LOCKING, 6 CONTACTS					
0047A					P10					
0049	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO					
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 115V 60HZ, 960 CHAR		
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV
								LM0946075-0006		AB

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946075-0006		REV AB		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0050	REF	EA		0938817-9901	PROCEDURE, 911 VDU, FINAL TEST					
0051	00006.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES					
0052	00006.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES					
0053	00001.000	EA		0972808-0001	THERMISTOR, DISC, 5 OHM					
0053A					RT1					
0059	00001.000	EA		0936467-0003	PLATE, IDENTIFICATION, 911 VDU					
0060	00001.000	EA		0975522-0003	CABLE ASSY, POWER CORD					
0061	00004.000	EA		0411101-0059	LOCKWASHER # 8 EXTERNAL TOOTH CRES	QPL - MS35335-59				
0062	00000.000	EA		2270437-0001	REMOVK, FLYBACK AND SWEEP BOARD ASSY					
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 115V 60HZ, 960 CHAR		
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV
								LM0946075-0006		AB

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946075-0007		REV AB		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0948562-0001	BASE, 713					
0002	00001.000	EA		0948563-0001	ASSEMBLY, 713 TOP COVER					
0005	00001.000	EA		0948572-0002	911 VIDEO DISPLAY UNIT MONITOR					
0006	00001.000	EA		0946084-0002	911 INTRNAT. POWER SUPPLY/LOGIC BOARD					
0007	00001.000	EA		0946082-0002	911 CRT XFMR, PWR, 100/200, 120/240VAC					
0007A					T1					
0008	00001.000	EA		0948568-0001	WIRING HARNESS, 911, 100V & 115V					
0012	00001.000	EA		0972248-0002	SWITCH, ROCKER-OPST 15 AMPERE 250 VAC	073559-TIG511SBLXTE1				
0012A					S1					
0013	00001.000	EA		0972050-0003	CAPACITOR, AL-40 C TC +65 C 16,000MF 30V	SEE - TI DRAWING				
0013A					C2					
0014	00001.000	EA		0230972-9001	CAP 6000. MF 20V CASE 1-3/8X2-1/8IN	MAL - CGS602U02R2C3				
0014A					C1					
0015	00001.000	EA		0230964-5001	CAP 2400. MF 50V CASE 1-3/8X2-1/8IN	MAL - CGS242U050R2C3				
0015A					C3					
0016	00001.000	EA		0948608-0001	PLATE, BAFFLE					
0018	00008.000	EA		0996740-0015	SEMS SCREW, 8-16X5/8 THD FORMING SLT HEX	-PLASTITE				
0019	00007.000	EA		0972679-0012	SCREW # 6-19 X 3/8 SLOTTED HEX					
0021	00001.000	EA		0232092-0003	HOLDER FUSE HKP-HH	BUS -HKP-HH				
0021A					XF1					
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 100V 50HZ, 960 CHAR		
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV
								LM0946075-0007		AB

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946075-0007		REV AB		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0022	00001.000	EA		0410822-0019	FUSE 1.0 A 250V SLOW BLOW UL-APPVD	BUS - MDL				
0022A					F1					
0023	00001.000	EA		0454990-0006	BUSHING, STRAIN-RELIEF, CABLE					
0027	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT					
0027A					J10					
0030	00001.000	EA		0972574-0007	HOUSING, CONN, PLUG, LOCKING 4 CONTACTS	AMP - 1-480702-0				
0030A					P9					
0035	AR	EA		0996069-0003	ADM, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302				
0036	00001.000	EA		0411027-0806	WASHER, #6 FLAT, CRES, .156 X .375 X .049	QPL - MS15795-806				
0038	00001.000	EA		0972574-0006	HOUSING, CONN PLUG, LOCKING 3 CONTACTS					
0038A					P8					
0039	00001.000	EA		0972741-0002	CLAMP, CBL, PLASTIC, SELF-ADHESIVE,					
0040	00004.000	EA		0996739-0035	SEMS MACHINE SCREW, 10-32X1/2 SLOT HEXHD					
0043	00001.000	EA		0936480-0001	LABEL, MONITOR					
0044	REF	EA		0936471-9901	WIRING DIAGRAM, 713					
0045	REF	EA		0936482-9901	WIRE LIST, 911, 100V					
0046	00014.000	EA		0972632-0001	STRAP, TIE DOWN, CABLE-NON-STD, 0-1-1/4 D.					
0047	00001.000	EA		0972574-0001	HOUSING, CONN, PLUG, LOCKING, 6 CONTACTS					
0047A					P10					
0048	00001.000	EA		0936487-0001	PWR LABEL, 100V					
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 VDU, 100V 50HZ, 960 CHAR		
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV
								LM0946075-0007		AB

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946075-0007		REV AB	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0049	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO						
0050	REF	EA		0938817-9901	PROCEDURE,911 VDU,FINAL TEST						
0051	00006.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0052	00006.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES						
0053	00001.000	EA		0972808-0001	THERMISTOR, DISC, 5 OHM						
0053A					RT1						
0060	00001.000	EA		0975522-0003	CABLE ASSY,POWER CORD						
0061	00004.000	EA		0411101-0059	LOCKWASHER # 8 EXTERNAL TOOTH CRES	GPL - MS35335-59					
0062	00000.000	EA		2270437-0001	REWORK,FLYBACK AND SWEEP BOARD ASSY						
DRAFTSMAN: _____ DATE: _____ CKD DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: ASSY,911 VDU,100V 50HZ,960 CHAR APPR. MFG: _____ DATE: _____ APPR. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO: _____ PART NUMBER: LM0946075-0007 REV: AB											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946075-0008		REV AB	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0948562-0001	BASE,713						
0002	00001.000	EA		0948563-0001	ASSEMBLY,713 TOP COVER						
0005	00001.000	EA		0948572-0002	911 VIDEO DISPLAY UNIT MONITOR						
0006	00001.000	EA		0946084-0002	911 INTRNAT. POWER SUPPLY/LOGIC BOARD						
0007	00001.000	EA		0946082-0002	911 CRT XFMR,PHR,100/200,120/240VAC						
0007A					T1						
0008	00001.000	EA		0948568-0002	WIRING HARNESS,911,220V & 240V						
0012	00001.000	EA		0972248-0002	SWITCH,ROCKER-DPST 15 AMPERE 250 VAC	073559-TIG511SBLATE1					
0012A					S1						
0013	00001.000	EA		0972050-0003	CAPACITOR,AL-40 C TO +65 C 16,000MF 30V	SEE - TI DRAWING					
0013A					C2						
0014	00001.000	EA		0230972-9001	CAP 6000. MF 20V CASE 1-3/8X2-1/8IN.	MAL -CG5602U020R2C3					
0014A					C1						
0015	00001.000	EA		0230964-5001	CAP 2400. MF 50V CASE 1-3/8X2-1/8IN.	MAL -CG5242U050R2L3					
0015A					C3						
0016	00001.000	EA		0948608-0001	PLATE,BAFFLE						
0018	00008.000	EA		0996740-0015	SEMS SCREW,8-16X5/8 THD FORMING S&T HEX	-PLASTITE					
0019	00009.000	EA		0972679-0012	SCREW # 6-19 X 3/8 SLOTTED HEX						
0021	00001.000	EA		0996367-0001	FUSEHOLDER,3 AG	075915-345001					
0021A					XF1						
DRAFTSMAN: _____ DATE: _____ CKD DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: ASSY,911 VDU,220V 50HZ,960 CHAR APPR. MFG: _____ DATE: _____ APPR. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO: _____ PART NUMBER: LM0946075-0008 REV: AB											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946075-0008		REV AB	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0022	00001.000	EA		0410822-0014	FUSE .500 A 250V SLOW BLOW UL-APPVD	BUS - MDL					
0022A					F1						
0023	00001.000	EA		0454990-0006	BUSHING, STRAIN-RELIEF, CABLE						
0027	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT						
0027A					J10						
0030	00001.000	EA		0972574-0007	HOUSING,CONN,PLUG,LOCKING 4 CONTACTS	AMP --1-480702-0					
0030A					P9						
0035	AR	EA		0996069-0003	AIR,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PEKSAL-917-6302					
0036	00001.000	EA		0411027-0806	WASHER,#6 FLAT,CRES,.156 X .375 X .049	GPL - MS15795-806					
0038	00001.000	EA		0972574-0006	HOUSING,CONN PLUG,LOCKING 3 CONTACTS						
0038A					P8						
0039	00001.000	EA		0972741-0002	CLAMP,CBL,PLASTIC,SELF-ADHESIVE,						
0040	00004.000	EA		0996739-0035	SEMS MACHINE SCREW,10-32X1/2 SLOT HEXHD						
0043	00001.000	EA		0936480-0001	LABEL,MONITOR						
0044	REF	EA		0936471-9901	WIRING DIAGRAM,713						
0045	REF	EA		0936483-9901	WIRE LIST,911,220V						
0046	00014.000	EA		0972632-0001	STRAP,TIE DOWN,CABLE-NON-STD,0-1-1/4 D.						
0048	00001.000	EA		0936487-0002	PHR LABEL,220V						
0049	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO						
0050	REF	EA		0938817-9901	PROCEDURE,911 VDU,FINAL TEST						
DRAFTSMAN: _____ DATE: _____ CKD DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: ASSY,911 VDU,220V 50HZ,960 CHAR APPR. MFG: _____ DATE: _____ APPR. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO: _____ PART NUMBER: LM0946075-0008 REV: AB											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946075-0008		REV AB	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0051	00006.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0052	00006.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES						
0057	00002.000	EA		0410894-0050	WASHER,1/2 .527 ID .863 OD,LOCK INT TH	078189-1724-00					
0060	00001.000	EA		2262122-0003	CABLE ASSY,POWER CORD,EUROPEAN,911						
0061	00004.000	EA		0411101-0059	LOCKWASHER # 8 EXTERNAL TOOTH CRES	GPL - MS35335-59					
0062	00000.000	EA		2270437-0001	REWORK,FLYBACK AND SWEEP BOARD ASSY						
DRAFTSMAN: _____ DATE: _____ CKD DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: ASSY,911 VDU,220V 50HZ,960 CHAR APPR. MFG: _____ DATE: _____ APPR. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO: _____ PART NUMBER: LM0946075-0008 REV: AB											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0946075-0009		REV A8		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0948562-0001	BASE, 713							
0002	00001.000	EA		0948563-0001	ASSEMBLY, 713 TOP COVER							
0005	00001.000	EA		0948572-0002	911 VIDEO DISPLAY UNIT MONITOR							
0006	00001.000	EA		0946084-0002	911 INTRNAT. POWER SUPPLY/LOGIC BOARD							
0007	00001.000	EA		0946082-0002	911 CRT XFMR, PWR, 100/200, 120/240VAC							
0007A					T1							
0008	00001.000	EA		0948568-0002	WIRING HARNESS, 911, 220V & 240V							
0012	00001.000	EA		0972248-0002	SWITCH, ROCKER-DPST 15 AMPERE 250 VAC	073559-TIG511SBLXTE1						
0012A					S1							
0013	00001.000	EA		0972050-0003	CAPACITOR, AL-40 C TO +65 C 16,000MF 30V	SEE - TI DRAWING						
0013A					C2							
0014	00001.000	EA		0230972-9001	CAP 6000. MF 20V CASE 1-3/8X2-1/8IN	MAL -CGS602U020R2C3						
0014A					C1							
0015	00001.000	EA		0230964-5001	CAP 2400. MF 50V CASE 1-3/8X2-1/8IN	MAL -CGS242U050R2C3						
0015A					C3							
0016	00001.000	EA		0948608-0001	PLATE, BAFFLE							
0018	00008.000	EA		0996740-0015	SEMS SCREW, 8-16X5/8 THD FORMING SLT HEX	-PLASTITE						
0019	00009.000	EA		0972679-0012	SCREW # 6-19 X 3/8 SLOTTED HEX							
0021	00001.000	EA		0996367-0001	FUSEHOLDER, 3 AG	075915-345001						
0021A					XF1							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911 VDU, 240V 50HZ, 960 CHAR					
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0946075-0009		REV A8		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0946075-0009		REV A8		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0022	00001.000	EA		0410822-0014	FUSE .500 A 250V SLOW BLOW UL-APPVD	BUS - MDL						
0022A					F1							
0023	00001.000	EA		0454990-0006	BUSHING, STRAIN-RELIEF, CABLE							
0027	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT							
0027A					J10							
0030	00001.000	EA		0972574-0007	HOUSING, CONN, PLUG, LOCKING 4 CONTACTS	AMP --1-480702-0						
0030A					P9							
0035	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 250 BAG ANAEROBIC	PERSAL-917-6302						
0036	00001.000	EA		0411027-0806	WASHER, #6 FLAT, CRES, .156 X .375 X .049	QPL - MS15795-806						
0038	00001.000	EA		0972574-0006	HOUSING, CONN PLUG, LOCKING 3 CONTACTS							
0038A					P8							
0039	00001.000	EA		0972741-0002	CLAMP, CBL, PLASTIC, SELF-ADHESIVE,							
0040	00004.000	EA		0996739-0035	SEMS MACHINE SCREW, 10-32X1/2 SLOT HEX HD							
0043	00001.000	EA		0936480-0001	LABEL, MONITOR							
0044	REF	EA		0936471-9901	WIRING DIAGRAM, 713							
0045	REF	EA		0936484-9901	WIRE LIST, 911, 240V							
0046	00014.000	EA		0972632-0001	STRAP, TIE DOWN, CABLE-NON-STD, 0-1-1/4 D.							
0048	00001.000	EA		0936487-0003	PWR LABEL, 240V							
0049	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO							
0050	REF	EA		0938017-9901	PROCEDURE, 911 VDU, FINAL TEST							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911 VDU, 240V 50HZ, 960 CHAR					
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0946075-0009		REV A8		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0946075-0009		REV A8		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0051	00006.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0052	00006.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES							
0057	00002.000	EA		0410894-0050	WASHER, 1/2 .527 ID .863 OD, LOCK INT TH	078189-1724-00						
0060	00001.000	EA		2262122-0003	CABLE ASSY, POWER CORD, EUROPEAN, 911							
0061	00004.000	EA		0411101-0059	LOCKWASHER # 8 EXTERNAL TOOTH CRES	QPL - MS35335-59						
0062	00000.000	EA		2270437-0001	REWORK, FLYBACK AND SWEEP BOARD ASSY							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911 VDU, 240V 50HZ, 960 CHAR					
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0946075-0009		REV A8		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0946075-0010		REV A8		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0948562-0001	BASE, 713							
0002	00001.000	EA		0948563-0001	ASSEMBLY, 713 TOP COVER							
0005	00001.000	EA		0948572-0002	911 VIDEO DISPLAY UNIT MONITOR							
0006	00001.000	EA		0946084-0002	911 INTRNAT. POWER SUPPLY/LOGIC BOARD							
0007	00001.000	EA		0946082-0002	911 CRT XFMR, PWR, 100/200, 120/240VAC							
0007A					T1							
0008	00001.000	EA		0948568-0001	WIRING HARNESS, 911, 100V & 115V							
0012	00001.000	EA		0972248-0002	SWITCH, ROCKER-DPST 15 AMPERE 250 VAC	073559-TIG511SBLXTE1						
0012A					S1							
0013	00001.000	EA		0972050-0003	CAPACITOR, AL-40 C TO +65 C 16,000MF 30V	SEE - TI DRAWING						
0013A					C2							
0014	00001.000	EA		0230972-9001	CAP 6000. MF 20V CASE 1-3/8X2-1/8IN	MAL -CGS602U020R2C3						
0014A					C1							
0015	00001.000	EA		0230964-5001	CAP 2400. MF 50V CASE 1-3/8X2-1/8IN	MAL -CGS242U050R2C3						
0015A					C3							
0016	00001.000	EA		0948608-0001	PLATE, BAFFLE							
0018	00008.000	EA		0996740-0015	SEMS SCREW, 8-16X5/8 THD FORMING SLT HEX	-PLASTITE						
0019	00007.000	EA		0972679-0012	SCREW # 6-19 X 3/8 SLOTTED HEX							
0021	00001.000	EA		0232092-0003	HOLDER FUSE MKP-HH	BUS -HMP-HH						
0021A					XF1							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911 VDU, 100V 60HZ, 960 CHAR					
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0946075-0010		REV A8		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946075-0010		REV AB		
DATE 03/31/80										
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0022	00001.000	EA		0410822-0019	FUSE 1.0 A 250V SLOW BLOW UL-APPVD	BUS - MCL				
0022A					F1					
0023	00001.000	EA		0454990-0006	BUSHING, STRAIN-RELIEF, CABLE					
0027	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CRT					
0027A					J10					
0030	00001.000	EA		0972574-0007	HOUSING,CONN,PLUG,LOCKING 4 CONTACTS	AMP --1-480702-U				
0030A					P9					
0035	AR	EA		0996069-0003	ADH,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302				
0036	00001.000	EA		0411027-0006	WASHER,#6 FLAT,CRES,#156 X .375 X .049	WPL - MS15795-806				
0038	00001.000	EA		0972574-0006	HOUSING,CONN PLUG,LOCKING 3 CONTACTS					
0038A					P8					
0039	00001.000	EA		0972741-0002	CLAMP,CBL,PLASTIC,SELF-ADHESIVE,					
0040	00004.000	EA		0996739-0035	SEMS MACHINE SCREW,10-32X1/2 SLOT HEXHD					
0043	00001.000	EA		0936480-0001	LABEL,MONITOR					
0044	REF	EA		0936471-9901	WIRING DIAGRAM,713					
0045	REF	EA		0936482-9901	WIRE LIST,911,100V					
0046	00014.000	EA		0972632-0001	STRAP,TIE DOWN,CABLE-NON-STD,0-1-1/4 D.					
0047	00001.000	EA		0972574-0001	HOUSING,CONN,PLUG,LOCKING, 6 CONTACTS					
0047A					P10					
0048	00001.000	EA		0936487-0004	POWER LABEL,713 VDU,100V,60HZ 1 AMP					
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
							ASSY,911 VDU,100V 60HZ,960 CHAR			
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO			
								PART NUMBER LM0946075-0010		
								REV AB		

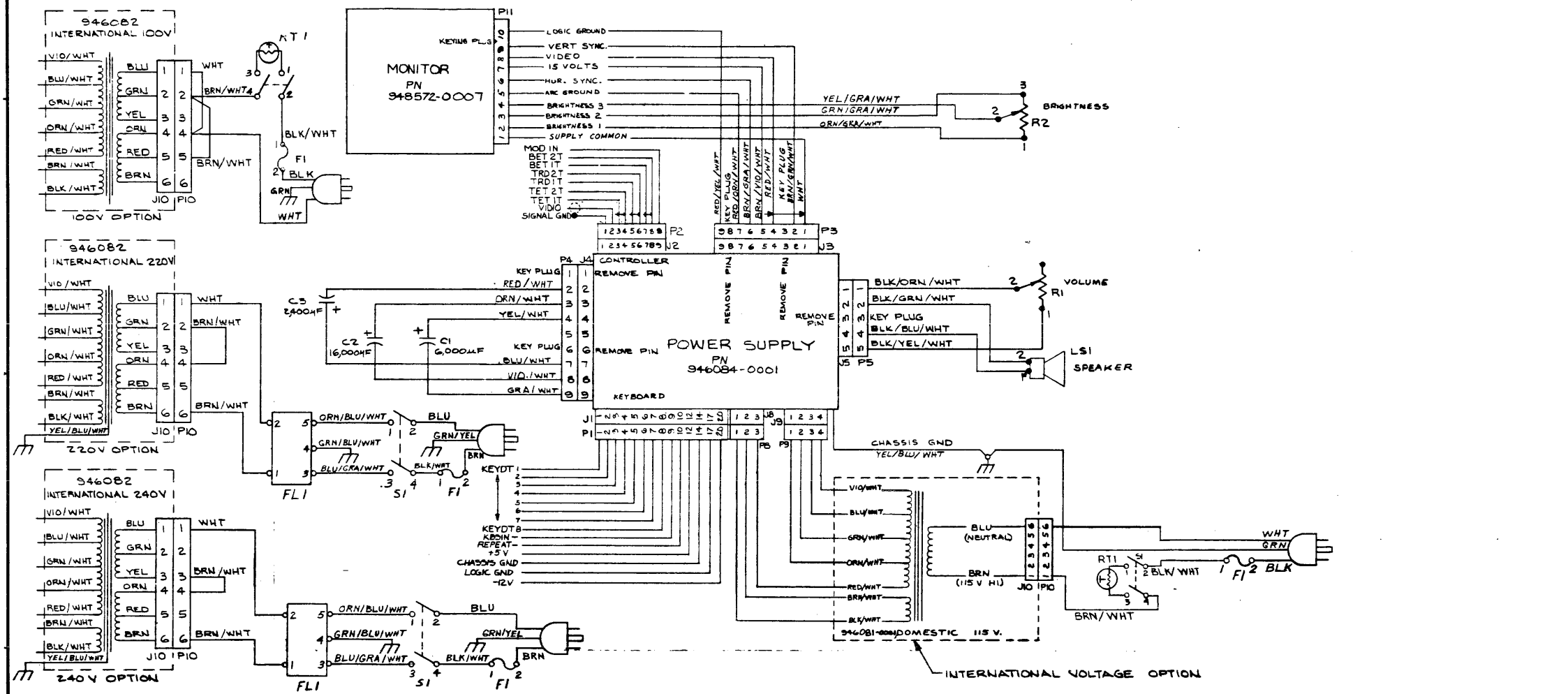
TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946075-0010		REV AB		
DATE 03/31/80										
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0049	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO					
0050	REF	EA		0938817-9901	PROCEDURE,911 VDU,FINAL TEST					
0051	00006.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES					
0052	00006.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES					
0053	00001.000	EA		0972808-0001	THERMISTOR, DISC, 5 OHM					
0053A					RT1					
0060	00001.000	EA		0975522-0003	CABLE ASSY,POWER CORD					
0061	00004.000	EA		0411101-0059	LOCKWASHER # 8 EXTERNAL TOOTH CRES	WPL - MS35335-59				
0062	00000.000	EA		2270437-0001	REWORK,FLYBACK AND SWEEP BOARD ASSY					
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
							ASSY,911 VDU,100V 60HZ,960 CHAR			
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO			
								PART NUMBER LM0946075-0010		
								REV AB		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946075-0011		REV AB		
DATE 02/14/80										
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0943847-0001	PWB ASSY,SWEEP BOARD	84V255-53A96				
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
							SPAKES LIST,911 CRT MONITOR			
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO			
								PART NUMBER LM0946075-0011		
								REV AB		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946075-0012		REV AB		
DATE 02/14/80										
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0948642-0001	MODIFICATION KIT,911 CRT II YOKE WIRES					
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
							MOD KIT,911 CRT II YOKE WIRES			
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO			
								PART NUMBER LM0946075-0012		
								REV AB		

NOTES: UNLESS OTHERWISE SPECIFIED:

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN415119 (C) F.P.I.	2-21-77	[Signature]
E	...	...	...
C	CN424980 (B) F.P.I.	11-15-77	[Signature]
D	CN428597 (B) F.P.I.	1-23-78	[Signature]
E	CN428269 (D) F.P.I.	2-22-78	[Signature]



SEQ NO	IDENT	F SPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES - ANGLES - 1° 3 PLACE DECIMALS = 0.001 2 PLACE DECIMALS = 0.02 INTERPRET DRAWING PER MIL-D-1000 REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS 0.010 FIM DIMENSIONAL LIMITS APPLY BEFORE PROCESSES PARENTHESES INFO FOR REF ONLY HOLE TOLERANCE THRU .004 THRU .005 THRU .008 .125 .001 .250 .001 .500 .001 .500 .001 .751 .001 1.000 .002 .750 .001 1.000 .001 2.000 .001					
946015	7510				
DATE: 12-1-76 DRAWING NO: D96214 DRAWING NO: 936471 SCALE: NONE SHEET: 1					

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
948568	7510	A	CN421202(D) R. Garner	1-13-77	J. Robby
946075	7510	B	CN418121(C) R. Paul	2-17-77	R. Paul
		C	CN426564(D) D. Walthall	8-5-77	J. Robby
		D	CN424441(C) D. Walthall	8-5-77	J. Robby
		E	CN424881(D) D. Garner	11-4-77	J. Robby
		F	CN428595(D) R. Garner	12-16-77	J. Robby
		G	CN428265(D) S. Dodson	2-3-78	J. Robby
		H	CN447411(C) M. Nordin	11-28-79	E. Wiaz

NOTES: 1 THRU 4 APPLY TO ASSY 946075 ONLY

- 1 INSTALL ITEM 26
- 2 INSTALL ITEM 25
- 3 INSTALL ITEM 29
- 4 ~~INSTALL ITEM 54 ON BOTH ENDS~~

REV																			
SHEET																			
REV STATUS OF SHEETS																			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 ANGLES 2:1
 3 PLACE DECIMAL ± .010
 2 PLACE DECIMAL ± .02

IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY

INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100

DWN	PEREZ 11/28/76	DATE	11/28/76
CHKD	R. Paul 12/21/76	DATE	12/21/76
ENGR	R. Paul 12/21/76	DATE	12/21/76
QA	C. Whit 21 DEC 76	DATE	21 DEC 76
APP	J. Robby 12/21/76	DATE	12/21/76
CONTR NO		DESIGN ACTIVITY RELEASE	

TEXAS INSTRUMENTS INCORPORATED
 Equipment Group Dallas, Texas

WIRE LIST, WIRING HARNESS/911, 115 VOLTS

SIZE	CODE IDENT NO	DRAWING NO
A	96214	936470

SCALE NONE SHEET 1 OF 3

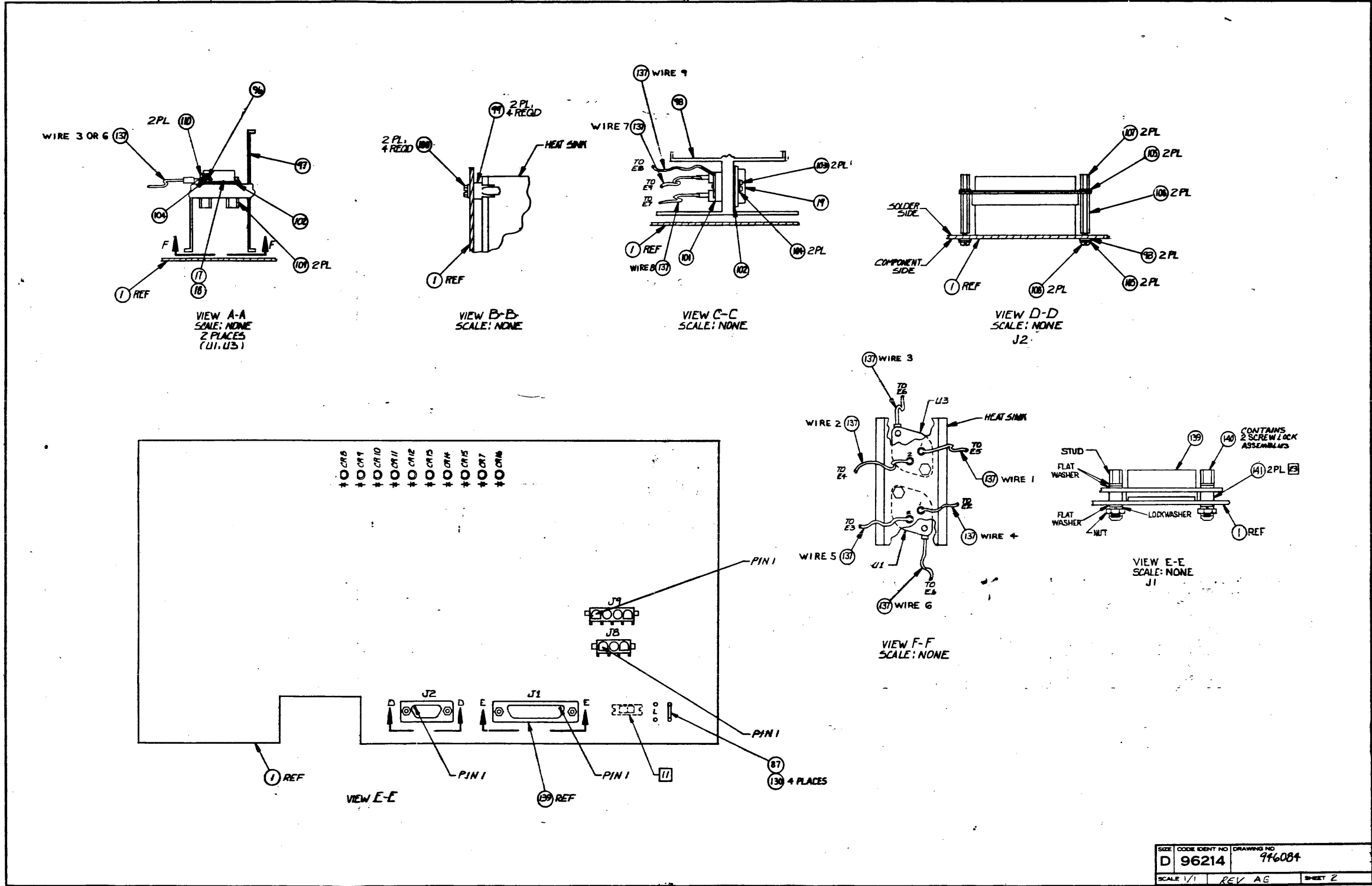
WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA ITEM NO.
1	#20 GR/WHIT		A	B	R2-1	P11-2		21
2	#20 BRN/WHIT		A	B	R2-3	P3		20
3	#20 YEL/WHIT		A	B	R2-2	P4		19
4	#22 WHT		B	E	P3-1	P1	VP WIRES 4&6	6
5	BLU/WHIT		B		-2	-9		14
6	RED/WHIT				-4	-8		6
7	GRN/WHIT				-5	-7		13
8	BLK/WHIT				-6	-6		7
9	ORN/WHIT				-7	-5		11
10	VIO/WHIT		B	E	P3-9	P11-10		15
11	VIO/WHIT		A	F	R1-1	P5-5		15
12	RED/WHIT		A	F	R1-2	P5-1		10
13	ORN/WHIT		A	F	LS1-1	P5-4		11
14	BLU/WHIT		A	F	LS1-2	P5-2		14
15	VIO/WHIT		A	F	SI-2	XFI-1		4
16	#18 BLK/WHIT		A	F	SI-4	P10-1		5
16A	#18 BLK/WHIT		F	F	P10-3			5
17	#22 BRN/WHIT		C	D	C3(-)	P4-2		9
18	#22 ORN/WHIT		C	D	C3(+)	P4-7		11
19	#22 RED/WHIT		H	D	C2(+)	P4-3		10

SIZE	CODE IDENT NO	DRAWING NO
A	96214	936470

SCALE NONE REV H SHEET 2

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
20	#22 BLK/WHT		H	D	C2(-)	P4-B		7
21	#22 BLU/WHT		G	D	C1(+)	P4-4		14
22	#22 YEL/WHT		G	D	C1(-)	P4-9		12
23	(BLK					XFI-2	3	
24	PWR CABLE } WHT					PI0-6	1	24
25	(GRN					CHASSIS GND	2	
26	BLU					J10-6		
27	BRN					J10-1		
28	VIO/WHT					P9-4		
29	BLU/WHT					P9-3		
30	T | GRN/WHT					P9-2		7
31	ORN/WHT					P9-1		
32	RED/WHT					P8-3		
33	BRN/WHT					P8-2		
34	BLK/WHT					P8-1		
35	THERMISTOR					S1-1		53
36	THERMISTOR					S1-3		53

SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	936470
SCALE	REV H	SHEET 3



NOTES:

(CONT'D FROM SH 1)

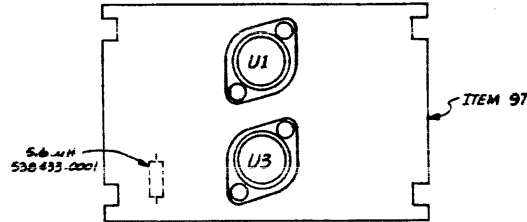
3. REWORK PROCEDURE FOR PWB, 948575-0001, REV B AND C

- a) REMOVE TRANSISTORS Q3, Q4 & Q5 AND INSTALL ON THE ETCH SIDE OF THE BOARD.
- b) REMOVE C33 AND REPLACE IT WITH A 0.047µF CAPACITOR, TI P/N 972965-0000. IT SHOULD BE INSTALLED AS SHOWN BELOW:



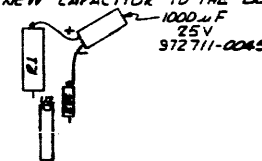
c) REMOVE RIB AND REPLACE IT WITH A 16KΩ RESISTOR, TI P/N 972946-0004

d) REMOVE HEATSINK, ITEM 97, AND CUT THE ETCH RUN CONNECTING R50 TO TEST POINT Z. INSTALL A 5.6µH INDUCTOR, TI P/N 538433-0001, ACROSS THE ETCH CUT. SEE DRAWING BELOW:

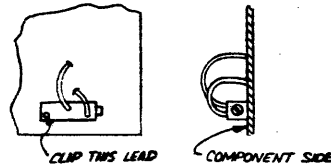


REPLACE THE HEATSINK ASSEMBLY.

e) CONNECT A CAPACITOR FROM R1 TO R55 AS SHOWN BELOW. THE CAPACITOR SHOULD BE A 1000µF @ 25V CAP, TI P/N 972711-0045. HOT MELT THE NEW CAPACITOR TO THE BOARD.



f) REMOVE R30 AND REPLACE IT WITH A POTENTIOMETER, TI P/N 539795-0012. INSTALL THE POT ON THE COMPONENT SIDE OF THE BOARD BY HOT MELTING IT DOWN WITH ITS LEADS UP. CONNECT THE LEADS WITH JUMPER WIRE AS SHOWN BELOW:

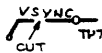


THIS POT SHOULD BE SET BEFORE A MONITOR IS CONNECTED TO THE POWER SUPPLY. TO SET THE POT REFER TO THE UNIT TEST PROCEDURE (TI P/N 948577) ON SETTING HORIZONTAL SYNC.

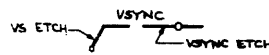
g) REMOVE R19 AND REPLACE WITH A 16KΩ, 1/4W RESISTOR, TI P/N 972946-0004.

3. CONT

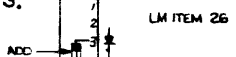
- a) REMOVE C32, A 680PF CAPACITOR AND REPLACE IT WITH A 560 PF CAP, TI P/N 972929-0393.
- 4. ITEM 125 IN L/M FOR -0001 & -0002 CONSISTS OF COMPONENTS TO BE AUTO INSERTED
- 5. ON SOLDER SIDE OF PWB 948575-1 REV E ONLY PERFORM THE FOLLOWING REWORK:
 - a) CUT ETCH PATH FOR VERT SYNC AS SHOWN



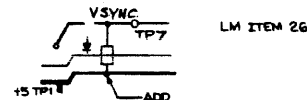
b) ADD JUMPERS USING 30 AWG WIRE (PN 535978-58) BETWEEN THE POINTS SHOWN: 1. VS ETCH & U4-B 2. VSYNC ETCH & U4-10



c) SOLDER SIDE - ADD DIODE, 914B, CR21 (PN 972932-1) BETWEEN PINS 3 & 4 OF NETWORK U5. ANODE CONNECTS TO PIN 3.

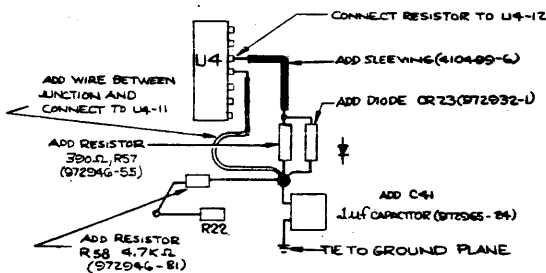


d) ADD DIODE, 914B, CR22 (PN 972932-1) BETWEEN VSYNC PATH AND +5V PATH



g. ON THE COMPONENT SIDE OF PWB 948575-1 REV E ONLY PERFORM THE FOLLOWING REWORK:

- a) REMOVE RESISTOR R28 (1/4W-5.1KΩ) AND REPLACE WITH A 1/4W-12KΩ RESISTOR (PN 972946-91) ITEM 126
- b) REMOVE CAPACITOR C10 (0.01µF CAP NEAR NETWORK U5) LM ITEM 81
- c) ADD THE FOLLOWING COMPONENTS AS ILLUSTRATED:



PN	DESCRIPTION	QTY	LM ITEM
972946-81	RESISTOR 1/4W - 4.7KΩ	R58	44
972932-1	DIODE 914B	CR23	26
972965-24	CAPACITOR 1µF	C41	79
972946-55	RESISTOR 1/4W - 390Ω	R57	127
410499-G	SLEEVING (AS REQUIRED)		128

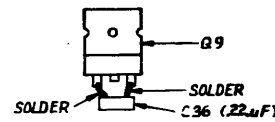
(NOTES CONT ON SH 4)

REV	DESCRIPTION	DATE	APPROVED
D	CN420369 (C) LM-0001 DELETED ITEMS 26, 33 THRU 36, 38 THRU 40, 42 THRU 49, 51 THRU 53, 55 THRU 58, 60 THRU 65, 75 & 77. (1) CREATED LM-5001 (8) LM-0002 DELETED ITEMS 26, 30, 33 THRU 36, 38 THRU 40, 42 THRU 49, 51 THRU 58, 60 THRU 67, 75 & 77. (4) CREATED LM-5002 (5) LM'S -1 & -2. ITEM 50 QTY WAS 3, ITEM 76 QTY WAS 2, ITEM 80 QTY WAS 1; (6) ADDED NOTE 4(7) UPDATED REV LEVEL BLOCK.	6-22-77	J. R. Rob
E	CN411586 (B) C. (1) ADDED NOTES 5 & 6 (2) LM-1, -2 ADDED ITEMS 126, 127, AND 128. ALSO ITEM 81 QTY WAS 3 ADDED ITEMS 26 AND 44. (3) LM-1, -2 ITEM 79 QTY WAS 1, LM-2, ITEM 79 QTY WAS 3.	6-23-77	J. R. Rob
F	CN426365 (C) H. (1) ADDED SH 4 (2) UPDATED REV LEVEL BLOCK	8-25-77	J. R. Rob
G	CN411585 (B) H. (1) SH 4, ADDED NOTE B (2) UPDATED REV LEVEL BLOCK	8-25-77	J. R. Rob
H	CN426365 (C) H. (1) REVISED PER EXTENSIVE ENGRG CHANGES (2) REVISED PICTORIAL PER 948575 PWB REV H (3) UPDATED REV LEVEL BLOCK	8-25-77	J. R. Rob
J	CN424850 (C) C. (1) UNCLINUS (1) E-2 LM'S ITEM 44-A DESC WAS R56 (2) SH3 NOTE 6C ALL REFERENCES TO R56 WERE R56 (3) UPDATED REV LEVEL BLOCK	9-2-77	J. R. Rob
K	CN427426 (B) S. (1) SH 1; REMOVED DASH NO FROM BOARD MARKING AND ADDED DASH NO MARKING CALLOUT (2) SH 1; R5B REF DES WAS R56 (3) SH 1; DELETED C10 (4) SH 2; ADDED SWITCH OUTLINE (5) SH 4; ADDED NOTES 10 AND 11 (6) UPDATED REV LEVEL BLOCK	10-11-77	J. R. Rob
L	CN427488 (B) C. (1) UNCLINUS (1) ADDED NOTE 12 TO SH 4 (2) TO LM'S -1 & -2 ADDED ITEM 131 (3) UPDATED REV LEVEL BLOCK	12-15-77	J. R. Rob
M	CN427490 (B) C. (1) UNCLINUS (1) ADDED NOTES 13, 14 & 15 (2) LM-0002 ADDED ITEM 62 (3) LM-5002 DELETED ITEM 54; ADDED ITEM 131 & ITEM 82 QTY WAS 1; 62A ADDED. R53 (4) UPDATED REV LEVEL BLOCK	12-19-77	J. R. Rob
N	CN427489 (B) H. (1) REV PER EXTENSIVE ENGINEERING CHANGE (2) UPDATED REV LEVEL BLOCK	2-28-78	J. R. Rob
P	CN428283 (B) H. (1) ON 0001 AND 0002 ITEM 12 WAS 972793-1 (2) CLASS OF CHANGE WAS C ON REV N (3) UPDATED REV LEVEL BLOCK	2-28-78	J. R. Rob
R	CN4467210 (B) H. (1) ADDED NOTE 19 (2) SH 4 (3) UPDATED REV LEVEL BLOCK	5-15-78	J. R. Rob
T	CN446723 (E) H. (1) ON LM-1 & -2 PU OF ITEM 118 WAS 417173-01 (2) PU OF ITEM 96 WAS 232354-1 (VENDOR PN WAS 31882) (3) QTY WAS 2 AND 32A BALLOON (4) ADDED ITEM 135 & 136 TO LMS (5) UPDATED REV LEVEL BLOCK	8-2-78	J. R. Rob
U	CN4467294 (E) A. (1) ON LM P/N OF ITEM 96 WAS 538882-2 (2) UPDATED REV LEVEL BLOCK	8-2-78	J. R. Rob
V	CN442603 (E) A. (1) ON LM DELETED ITEM 111 FOR -1 & -2 (2) SH1 DELETED BALLOON 111 AND ADDED FLR 820 (3) SH 4 ADDED NOTE 20 (4) UPDATED REV LEVEL BLOCK	8-2-78	J. R. Rob
W	CN442700 (B) T. (1) ON -5001 AND -5002 LMS, ITEM 40 WAS 972946-0093 (2) QTY OF ITEM 77 WAS 3 (3) ADDED ITEM 127 (4) UPDATED REV LEVEL BLOCK	8-10-78	J. R. Rob
Y	CN446797 (B) H. (1) REV LEVEL BLOCK TEST PROC WAS B FOR ASSY RTHRU W (2) ON -5001 & -5002 LM ITEM 40 WAS -010 (3) UPDATED REV LEVEL BLOCK (CONT ON SH 4)	8-22-78	J. R. Rob

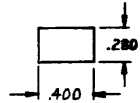
DATE: 5-2-77	SIZE FROM: D96214	DRAWING NO: 946084	SHEET: 3
SCALE: 1:100E			

NOTES: CONT

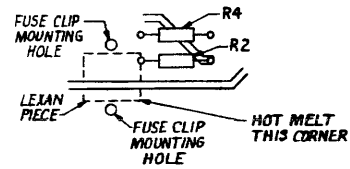
7. ON A -0002 ASSEMBLY BUILT ON A REV E PWB ONLY THE ADDITIONAL REWORK OR ASSEMBLY SHOULD BE PERFORMED:
 a) REMOVE C36 AND REINSTALL ACROSS Q9 AS SHOWN BELOW:



b.) INSTALL R2 AND R4 ON THE ETCH SIDE OF THE BOARD.
 c.) CUT A PIECE OF LEXAN (1 P/N 417331-0015) TO THE DIMENSIONS SHOWN BELOW:



d) INSTALL THE PIECE OF LEXAN UNDER THE LOWER FUSE CLIP AS SHOWN BELOW



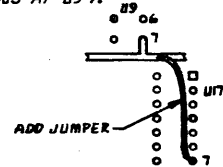
THE LEXAN SHOULD BE INSTALLED TO PREVENT THE FUSE CLIP FROM TOUCHING EITHER THE ETCH RUN BENEATH THE CLIP OR R2 NEXT TO THE CLIP

8. ON REVISION 6 ASSEMBLIES IGNORE LED TEST REQUIREMENTS FOR CR8 THRU CR15

9. THE FOLLOWING ADDITIONAL REWORK SHOULD BE DONE TO ASSEMBLIES BUILT ON REVISION LEVEL C THRU E PWB'S

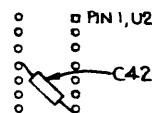
- a) REMOVE U15 AND REPLACE IT WITH THE 911 UART ASSEMBLY (1 P/N 938830-0001)
- b) IF NECESSARY RECONNECT THE CATHODES OF CR8 THRU CR15 TO GROUND

10. ON CONDUCTOR SIDE OF PWB 948575-1 REV C THRU J, ADD JUMPER USING 20 AWG HOOK-UP WIRE PN 957313-2, ABOUT 2 INCHES ARE REQUIRED. CONNECT U17-7 AND GROUND BUS AT U9-7.

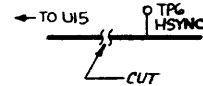


11. ITEMS B7 AND 130 MAY BE REPLACED BY A SWITCH (1 P/N 572413-0001) IF CARE IS TAKEN TO AVOID FLUX WICKING UP INTO THE SWITCH.

12. THE FOLLOWING REWORK SHOULD BE DONE TO ASSEMBLIES BUILT ON PWB'S REV K OR EARLIER; INSTALL 0.1µF CERAMIC CAPACITOR, ITEM 131, BETWEEN PINS 1 AND 11 ON U2. THE CAPACITOR IS INSTALLED ON THE CONDUCTOR SIDE OF THE PWB.



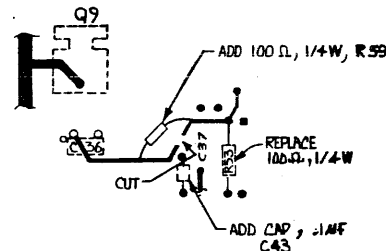
13. ON CONDUCTOR SIDE OF PWB 948575-1, REV C THRU K, PERFORM THE FOLLOWING REWORK:
 a.) CUT ETCH BETWEEN HSYNC (TP6) AND LIMIT (U15 PINS 17 & 40)



b.) ADD JUMPER USING 30 AWG WIRE (PN 53978-5B) BETWEEN NETWORKS US PIN 5 & U15 PIN 17.

14. ON -2 ASSEMBLY, REV L OR EARLIER, WITH THE PWB 948575-1, REV C THRU K PERFORM THE FOLLOWING REWORK:

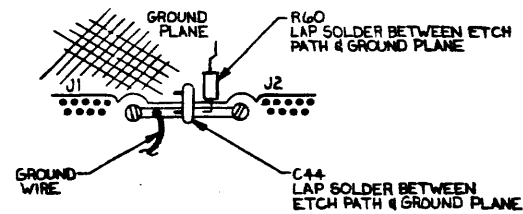
- a.) REMOVE RESISTOR R53 (1/4W-820Ω)
- b.) ADD NEW RESISTOR R53 WITH RESISTOR VALUE (1/4W-100Ω, PN 972946-41, -5002 LM ITEM 62)
- c.) CUT ETCH BETWEEN RESISTOR R53 AND CAPACITOR C36 ON CONDUCTOR SIDE.
- d.) LAP SOLDER RESISTOR (1/4W-100Ω, R59, PN 972946-41, -2 LM ITEM 62) ACROSS OPENED PATH - CONDUCTOR SIDE.
- e.) ADD CAPACITOR (.1 MICROFARAD, PN 972757-37, ON THE -2 ASSEY, LM ITEM 131) IN FEEDTHROUGHS BESIDE C37 ON COMPONENT SIDE. SKETCH SHOWS LAYOUT FOR REV E ARTWORK; OTHER LAYOUTS SIMILAR.



15. ON -2 ASSEMBLY REVISION M, BUILT WITH PWB 948575-1 REV C THRU K PERFORM THE FOLLOWING REWORK:

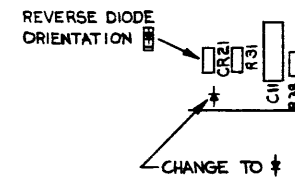
- a.) CUT ETCH BETWEEN RESISTOR R53 AND CAPACITOR C36 ON CONDUCTOR SIDE.
- b.) LAP SOLDER RESISTOR (1/4W-100Ω, R59, PN 972946-41, -2 LM ITEM 62) ACROSS OPEN PATH - CONDUCTOR SIDE.
- c.) ADD CAPACITOR (.1 MICROFARAD, PN 972757-37, C43 ON -2 LM ITEM 131) IN FEEDTHROUGHS BESIDE C37 ON COMPONENT SIDE.

16. ON THE COMPONENT SIDE OF PWB 948575-1 REV C THRU K, ADD CAPACITOR C44 (LM ITEM 133) AND RESISTOR R60 (LM ITEM 134) AS ILLUSTRATED

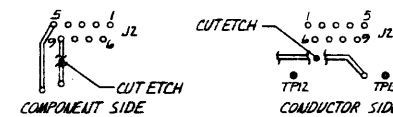


17. THE PRINTED WIRE BOARD MAY WARP AT ASSEMBLY DUE TO HEAT SINK CURVATURE. WARPAGE, MEASURED ACROSS ENTIRE LENGTH OR WIDTH OF PWB, MUST NOT EXCEED .125 INCHES.

18. ON COMPONENT SIDE OF PWB 948575-1 REV C THRU K, ORIENT DIODE CR21 AS SHOWN IN SKETCH. REMOVE SILK SCREEN SHOWING DIODE ORIENTATION AND SKETCH REVERSED SYMBOL USING INDIA INK.



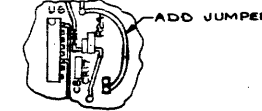
19. ON THE COMPONENT SIDE OF PWB 948575-0001 ALL REVISION LEVELS, CUT THE ETCH BELOW J2 PIN 9, OR ON THE ETCH SIDE CUT THE BOTTOM ETCH BELOW J2 IN THE AREA OF TP12.



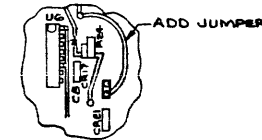
20. ITEMS 22 AND 23 ARE TO BE MECHANICALLY MACHINE PREPPED PRIOR TO INSERTION

21. ON ALL ASSY 946084 REV Y OR BELOW REMOVE THE CAPACITOR AT C15 AND INSTALL A .10µF PIN 972757-0001

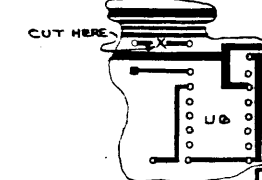
22. a) ON THE COMPONENT SIDE OF PWB 948575-0001 REV. E THRU J ADD JUMPER AS SHOWN USING 30 AWG WIRE PN 53978-5B



b) REV. K THRU M ADD JUMPER AS FOLLOWS:



c) ON THE CONDUCTOR SIDE OF PWB 948575-0001 REV. E THRU M CUT ETCH AS FOLLOWS:



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
AA		CN 944646 (B) REWORK Q1 LM CHANGES. ADDED NOTE 21 AND UPDATED REV. LVL. BLK.	9-8-78	E. Wang
AB		CN 442764 (B) & R4 (1) ADD NOTE 22 ON SH 4 (2) ON -5001 & -5002 LM DELETED ITEM 40, PN 0972946-93 & ITEM 40A, ITEM 127 & 127A. PN 0972757-0037. CHG. Q174. ITEM 26, WAS 5 PN 972937-1. C) DELETE CRS FROM ITEM 26A. (3) DELETE REWORK NOTE 21. (4) DELETE CRS, C15 & R36 FROM SH. 1.	11-28-78	E. Wang
AC		CN 442304 (D) BRYAN (1) LM FOR -1 & -2, ITEM 130 PN WAS 996664-1.	11-25-78	E. Wang
AD		CN 442784 (C) E. Wang (1) ON -0001 & -0002 LM. ITEM 15 WAS -0311 (2) SH. 1, ZN C-6 & C-7. ADDED PARTS C42, C43, C44, R59 & R60; CHANGED U7, CO APONENT SHAPE (3) UPDATED REV. LEVEL BLOCK.	11-28-78	E. Wang
AE		CN 441400 (C) E. Wang (1) REVISED -0001, -0002, -5001 & -5002 LM'S EXTENSIVELY (2) DELETED ITEMS 95, 96, 112, THRU 116 & 122. (3) ADDED ITEM 137 (4) UPDATED REV. LEVEL BLK.	3-24-79	J. R. Kelly
AF		CN 441341 (C) E. Wang (1) ON LM'S DELETED ITEM 92 (2) ON LM'S -5001 AND -5002. ADDED ITEM 138 (3) UPDATED REV. LEVEL BLOCK.	3-24-79	J. R. Kelly
AG		CN 442456 (C) E. Wang (1) REVISED PER EXTENSIVE ENGRG CHANGES	11-8-79	E. Wang
AH		CN 456181 (C) E. Wang (1) ON SH 1 ZN C-6 & C-7 BALLOON 138 WAS 92 (2) UPDATED REV. LEVEL BLOCK.	2-21-80	J. R. Kelly
AJ		CN 435783 (E) C. R. R. (1) DELETED ITEM 112 FROM -0001 LM (2) UPDATED REV. LEVEL BLOCK.	2-21-80	J. R. Kelly

23. SPACER ITEM 141 IS NOT REQUIRED WHEN CONNECTOR ITEM 139 HAS MOLDED SHOULDER TO SUPPORT FLANGE AS SHOWN BELOW:



TEXAS INSTRUMENTS	DATE: 2/25/77	SIZE: PCDM NO. D96214	DRAWING NO. 946084	REV. AJ
ISSUE DATE	SCALE: NONE	SHEET 4		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946084-0001		REV AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0890	00001.000	EA		0972476-0001	CONNECTOR 9 POS RECTANGULAR	017105-295733-7					
0090A					J2						
0091	00002.000	FA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRES	QPL - MS15795-803					
0097	00001.000	FA		0948581-0002	HEAT SINK,5 AMP 12 VOLT						
0098	00001.000	FA		0948579-0003	HEAT SINK,15 VOLT						
0099	00008.000	FA		0996447-0013	FASTENER,NYLON,EXPANSION	078553-C63059AA-187					
0100	00008.000	FA		0972683-0012	SCREW #8-1A X 1/2 THREAD FORMING						
0101	00001.000	FA		0735741-0000	SOCKET XST TO-3 CASE	EBY -9866-15-1					
0102	00003.000	FA		0802373-0007	INSULATOR,PLATE	018565-60-11-4511-166					
0103	00002.000	FA		0972988-0031	SCREW 6-32 X .625 PAN HEAD CRES						
0104	00004.000	FA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0105	00004.000	FA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - MS35333-70					
0106	00002.000	FA		0532348-0405	NUT,SLEEVE-CRES #4-40 X 3/16 .250						
0107	00002.000	FA		0532348-0400	STUD, EXTENSION-CRES #4-40 X .188						
0108	00002.000	FA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES						
0109	00004.000	FA		0936466-0001	NUT,SHLD,INSUL,#4 PLASTIC						
0110	00004.000	FA		0972679-0027	SCREW THREAD SLOTTING HEX .875						
0117	00001.000	EA		0538433-0001	COIL PF 5.60 OHM .13 OHM 885 MA L710K158	QPL - MS90542-14					
0117A					L1						
0118	00001.000	EA		0972711-0045	CAP, FIXED 1000UF 25WVDC 10X						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 911 DOMESTIC P/S-LOGIC BOARD											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946084-0001 AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946084-0001		REV AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0118A					C35						
0121	00000.167	FT		0411400-0022	WIRE 22AWG FLYING-TIN-PLATED,COPPER						
0123	00001.000	FA		0972965-0020	CAP FIX CERAMIC .047 MF 10% 100V	QPL - CK068X473K					
0123A					C33						
0124	00001.000	EA		0972979-0393	CAP FIX CERAMIC 560 PF 10 % 200 V	QPL -M39014/01-1393					
0124A					C32						
0125	00001.000	FA		0946084-5001	AUTO INSERTION TAPE FOR 946084-1						
0127	00001.000	FA		0972946-0055	RES FIX 390 OHM 5 % .25 W CARBON FILM	R0H - R-25					
0127A					R57						
0128	00000.167	FT		0410499-0006	INSULATION SLEEVING,TFELON #22 NATURAL	QPL -91349					
0130	00004.000	FA		0996864-0001	CONNECTOR,SOCKET PCB	022526-75060-007					
0131	00001.000	FA		0972757-0037	CAP FIX CER 0.1MF 10% 50V						
0131A					C42						
0133	00001.000	EA		0410529-0103	CAP FIX CERAMIC .010 MF GMV 1 KV	CRL - DD-103					
0133A					C44						
0134	00001.000	FA		0972947-0137	RES FIX 1.0M OHM 5% .5 W CARBON FILM	R0H - R-50					
0134A					R60						
0135	AR	FA		0996069-0003	ADH,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6307					
0137	00001.000	FA		0936477-0001	KIT,WIRE,911 POWER SUPPLY						
0139	00001.000	FA		2210341-0003	CONN, RECEPT,25 PINS, 2.095 L	030779-SFF TI DWG					
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 911 DOMESTIC P/S-LOGIC BOARD											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946084-0001 AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0946084-0001		REV AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0139A					J1						
0143	00001.000	FA		2210429-0001	SCREW LOCK,FEMALE	030779-20771-1					
0144	00002.000	EA		0416925-0400	SPACER,#4 1/8"LG ALUM ANODIZED	-NAS43000-8					
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 911 DOMESTIC P/S-LOGIC BOARD											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946084-0001 AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946084-0002		REV AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	REF	FA		0948576-9901	LOGIC DIAGRAM,911 P/S-LOGIC BOARD						
0003	REF	EA		0948577-9901	TEST PROCEDURE,911 P/S-LOGIC BOARD						
0005	00001.000	EA		0996304-0001	INTEGRATED CIRCUIT,AMPL,PWR,AUDIO						
0006A					U10						
0007	00001.000	FA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011NC					
0007A					U15						
0009	00001.000	FA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273N					
0009A					U14						
0015	00001.000	FA		0222225-2311	NETWORK LM311N,SN72311P	SFF - TI DRAWING					
0015A					U7						
0017	00001.000	FA		0537989-0001	IC,LM309K,5 VOLT REGULATOR	SFF TI- DRAWING					
0017A					U1						
0018	00001.000	FA		0972872-0007	NETWORK,LM 320K-12 VOLTAGE REGULATOR	-					
0018A					U3						
0019	00001.000	FA		0972802-0001	TRANSISTOR TIP640 DARLINGTON,POWER NPN	TI - TIP640					
0019A					Q1						
0020	00001.000	FA		0800523-0001	TRANSISTOR A57907 PNP SILICON	TI- -A57907					
0020A					Q7						
0021	00001.000	FA		0972546-0002	TRIAC, SILICON-12A TIC126A						
0021A					Q9						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 911 INTRNAT. POWER SUPPLY/LOGIC BOARD											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946084-0002 AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946084-0002		REV AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0022	00004.000	FA		0972955-0001	XSTR 2N2369A, NPN, HIGH SPEED SW, TO-18	MOT - 2N2369A					
0022A					Q2 Q3 Q4 Q5	TI - 2N3829					
0023	00001.000	FA		0532562-0001	TRANSISTOR 2N3829	TI - 2N3829					
0023A					Q6	VRA - VHI48					
0024	00001.000	EA		0539873-0001	DIODE, BRIDGE RECTIFIER 6 AMP	VAR - VHI48					
0024A					CR2	VAR - VSI48					
0025	00002.000	EA		0972127-0001	RECTIFIER, BRIDGE 2 AMP EPOXY	VAR - VSI48					
0025A					CR1 CR3	SEE TI- DRAWING					
0026	00003.000	FA		0972972-0001	DIODE 1N914B	SEE TI- DRAWING					
0026A					CR21 CR22 CR23						
0027	00010.000	FA		0539440-0003	OPTOELECTRONIC DEVICES-TIL 220						
0027A					CR7 CR8 CR9 CR10 CR11 CR12						
0027B					CR13 CR14 CR15 CR16						
0031	00001.000	FA		0972934-0004	DIODE, 1N749A 4.3 V 5% SIL VOLT REG	QPL - 1N749A					
0031A					CR19						
0037	00001.000	FA		0539795-0012	RES VAR CERMET 50 K OHMS 10 % .75 WATT	ROU -3069P-1-503					
0037A					R30						
0044	00001.000	FA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH - R-25					
0044A					R54						
0049	00001.000	EA		0972947-0073	RES FIX 7.2K OHM 5% .5 W CARBON FILM	ROH - R-50					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 911 INTRNAT. POWER SUPPLY/LOGIC BOARD											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0946084-0002 REV AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946084-0002		REV AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0049A					R54						
0050	00002.000	FA		0972946-0072	RES FIX 2.0K OHM 5 % .25 W CARBON FILM	ROH - R-25					
0050A					R20 R27						
0059	00001.000	EA		0972978-0099	RES FIX COMP 1.0 W 330 OHMS 5 %	QPL -RC32G331JS					
0059A					R56						
0062	00001.000	FA		0972946-0041	RES FIX 100 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0062A					R59						
0068	00001.000	FA		0972942-0004	RES FIX 0.33 OHMS 10% 5W WW	IRC - AS-5					
0068A					R1						
0069	00001.000	EA		0539795-0007	RES VAR CERMET 1.0 K OHMS 10 % .75 WATT	ROU -3069P-1-102					
0069A					R3						
0070	00001.000	EA		0230917-0010	CAP 200.0 MF 25V 75/-10	SEE TI- DRAWING					
0070A					C14						
0071	00001.000	FA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL -M39003/1-2301					
0071A					C5						
0072	00001.000	FA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 % 20 VOLT	QPL -M39003/1-2295					
0072A					C20						
0073	00001.000	EA		0972924-0019	CAP FIX TANT SOLID 22 MFD 10 % 35 VOLT	QPL -M39003/1-2306					
0073A					C22						
0074	00003.000	EA		0972924-0014	CAP FIX TANT SOLID 15 MFD 10 % 20 VOLT	QPL -M39003/1-2289					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 911 INTRNAT. POWER SUPPLY/LOGIC BOARD											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0946084-0002 REV AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946084-0002		REV AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0074A					C2 C3 C9						
0075	00001.000	EA		0972974-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT	QPL -M39003/1-2283					
0076A					C31						
0078	00002.000	EA		0996311-0015	CAPACITOR, 1.0000 UF 100 VDC 10%						
0078A					C21 C34						
0079	00003.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	QPL - CK068X104K					
0079A					C18 C37 C41						
0080	00001.000	FA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0080A					C39						
0081	00002.000	EA		0972929-0415	CAP FIX CERAMIC .010 UF 10 % 100 V	QPL -M39014/01-1415					
0081A					C7 C8						
0082	00001.000	EA		0972929-0403	CAP .0022 UF 10% 100V						
0082A					C6						
0083	00001.000	FA		0730491-9999	CAP .001500 MF 200V 10. %	MIL -CK368X152K					
0083A					C4						
0084	00001.000	FA		0972927-0051	CAP FIX MICA 100V 1000 PF 5 %	QPL -C405F102JNA					
0084A					C11						
0085	00001.000	EA		0972929-0394	CAP FIX CERAMIC 680 PF 10 % 200 V	QPL -M39014/01-1394					
0085A					C17						
0086	00001.000	EA		0972929-0391	CAP FIX CERAMIC 470 PF 10 % 200 V	QPL -M39014/01-1391					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 911 INTRNAT. POWER SUPPLY/LOGIC BOARD											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0946084-0002 REV AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946084-0002		REV AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0086A					C1						
0087	00001.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH						
0088	00001.000	EA		0972423-0006	CONN, UNIV PWB MTD, 4 CIRCUIT						
0088A					J9						
0089	00001.000	EA		0972423-0005	CONNECTOR PWB MOUNTED 3 CONTACTS NATURAL	017105-350429-1					
0089A					J8						
0090	00001.000	EA		0972426-0001	CONNECTOR 9 PDS RECTANGULAR	017105-205733-7					
0090A					J2						
0093	00002.000	FA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRFS	QPL - M515795-803					
0097	00001.000	FA		0948591-0002	HEAT SINK, 5 AND 12 VOLT						
0098	00001.000	FA		0948579-0003	HEAT SINK, 15 VOLT						
0099	00008.000	FA		0996447-0013	FASTENER, NYLON, EXPANSION	078553-C6J053AA-187					
0100	00008.000	EA		0972683-0012	SCREW #8-18 X 1/2 THREAD FORMING						
0101	00001.000	FA		0235341-0000	SOCKET XST TO-3 CASE	FRY -9866-15-1					
0102	00003.000	EA		0802373-0007	INSULATOR, PLATE	018565-60-11-4511-166					
0103	00002.000	EA		0972988-0031	SCREW 6-32 X .625 PAN HEAD CRFS						
0104	00004.000	FA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRFS	QPL - M535333-71					
0105	00004.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRFS	QPL - M535333-70					
0106	00002.000	FA		0532353-0405	NUT, SLEEVF-CRFS #4-40 X 3/16 .250						
0107	00002.000	FA		0532348-0400	STUD, EXTENSION-CRFS #4-40 X .188						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 911 INTRNAT. POWER SUPPLY/LOGIC BOARD											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0946084-0002 REV AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0946084-0002		REV AJ		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0132	00001.000	FA		0972965-0078	CAP, FIXED .220 MF 10% 50V							
0132A					C36							
0133	00001.000	FA		0410529-0103	CAP FIX CERAMIC .010 MF GMV 1 KV	CPL - DD-103						
0133A					C44							
0134	00001.000	EA		0972947-0137	RES FIX 1.0M OHM 5% .5 W CARBON FILM	R0H - R-50						
0134A					R60							
0135	AR	FA		0996069-0003	ADH, SOLID, THRMPLSTC 75# BAG ANAEROBIC	PERSAL-917-6302						
0137	00001.000	FA		0936472-0001	KIT, WIRE, 911 POWER SUPPLY							
0139	00001.000	EA		2210341-0003	CONN. RECEPT. 25 PINS, 2.095 L	000779-SEF TI DWG						
0139A					J1							
0140	00001.000	FA		7210429-0001	SCRFW LOCK, FFHALF	000779-207719-1						
0141	00002.000	FA		0416925-0400	SPACER, #4 1/8" LG ALUM ANODIZED	-NAS43000-8						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE 911 INTRNAT. POWER SUPPLY/LOGIC BOARD					
APPROV MFG		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO					
							PART NUMBER LM0946084-0002					
							REV AJ					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946084-0002		REV AJ		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0108	00007.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CPES							
0109	00004.000	EA		0936466-0001	NUT, SHLD, INSUL, #4 PLASTITE							
0110	00004.000	FA		0972679-0027	SCREW THREAD SLOTTING HEX .875							
0117	00001.000	EA		0538433-0001	CONN RF 5.60 OHM .13 OHM 885 MA LT10K158	OPL - MS90542-14						
0117A					L1							
0118	00001.000	FA		0972711-0045	CAP, FIXED 1000UF 25WVDC 10%							
0118A					C35							
0119	00002.000	EA		0772635-0001	CLIP, FUSE	LIT -102068						
0120	00001.000	FA		0416474-0203	FUSE 2.0 A 250V 3AG	LIT - 312002						
0120A					F2							
0123	00001.000	FA		0972965-0020	CAP FIX CERAMIC .047 MF 10% 100V	OPL - CX06RX473K						
0123A					C33							
0124	00001.000	FA		0972929-0393	CAP FIX CERAMIC 560 PF 10% 200 V	OPL -M39014/01-1393						
0124A					C32							
0125	00001.000	FA		0946084-5002	AUTO INSERTION TAPE FOR 946084-2							
0127	00001.000	FA		0972946-0055	RES FIX 390 OHM 5% .25 W CARBON FILM	R0H - R-25						
0127A					R57							
0130	00004.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022576-75060-007						
0131	00002.000	EA		0972757-0037	CAP FIX CER 0.1MF 10% 50V							
0131A					C42, C43							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE 911 INTRNAT. POWER SUPPLY/LOGIC BOARD					
APPROV MFG		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO					
							PART NUMBER LM0946084-0002					
							REV AJ					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946084-5002		REV AJ		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0948575-0001	PWR, 911 POWER SUPPLY							
0004	00001.000	EA		0972639-0001	NETWORK, SN75113N							
0004A					U11							
0005	00001.000	FA		0972189-0002	NETWORK SN75115N	-TI-SN75115N						
0005A					U9							
0008	00001.000	FA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N						
0008A					U13							
0010	00001.000	FA		0972900-7474	NETWORK SN74LS74N							
0010A					U17							
0011	00001.000	FA		0972782-0001	NETWORK SN74LS132N	TI -SN74LS132N						
0011A					U9							
0012	00001.000	FA		0222222-7123	NETWORK SN74123N							
0012A					U6							
0013	00001.000	FA		0996033-0001	IC, TIMING DELAY NE556	TI -NE556						
0013A					U5							
0014	00001.000	FA		0222222-7414	NETWORK SN7414N							
0014A					U4							
0016	00001.000	EA		0972662-0001	NETWORK, SN72723N							
0016A					U2							
0026	00004.000	FA		0972932-0001	DIODE 1N914B	SEE TI- DRAWING						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO INSERTION TAPE FOR 946084-2					
APPROV MFG		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO					
							PART NUMBER LM0946084-5002					
							REV AJ					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946084-5002		REV AJ		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0026A					CR4 CR6 CR17 CR18							
0030	00001.000	EA		0972934-0007	DIODE, 1N752A 5.6 V 5% SIL VOLT REG	OPL - 14752A						
0030A					CR20							
0032	00001.000	EA		0972037-3220	NETWORK, RES 2.2K OHM 2% 16PIN BELEMENT							
0032A					U12							
0033	00001.000	FA		0972946-0117	RES FIX 150K OHM 5% .25 W CARBON FILM	R0H - R-25						
0033A					R39							
0034	00001.000	FA		0972946-0106	RES FIX 51 K OHM 5% .25 W CARBON FILM	R0H - R-25						
0034A					R23							
0035	00001.000	FA		0539370-0538	RES FIX FILM 39.2K OHM 1% .25 WATT	COR - NA55						
0035A					R31							
0036	00001.000	EA		0972946-0101	RES FIX 33 K OHM 5% .25 W CARBON FILM	R0H - R-25						
0036A					R25							
0038	00007.000	FA		0972946-0096	RES FIX 20 K OHM 5% .25 W CARBON FILM	R0H - R-25						
0038A					R33, R37							
0039	00002.000	FA		0972946-0094	RES FIX 16 K OHM 5% .25 W CARBON FILM	R0H - R-25						
0039A					R18, R19							
0042	00001.000	FA		0539370-0463	RES FIX FILM 6.49K OHM 1% .25 WATT	COR - NA55						
0042A					R24							
0043	00002.000	FA		0972946-0082	RES FIX 5.1K OHM 5% .25 W CARBON FILM	R0H - R-25						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO INSERTION TAPE FOR 946084-2					
APPROV MFG		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO					
							PART NUMBER LM0946084-5002					
							REV AJ					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946084-5002		REV. AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0043A					R10 R11						
0044	00003.000	FA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0044A					R12 R22 R40						
0045	00001.000	FA		0972946-0080	RES FIX 4.3K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0045A					R9						
0046	00001.000	FA		0972946-0079	RES FIX 3.9K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0046A					R41						
0047	00002.000	FA		0972946-0077	RES FIX 3.3K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0047A					R2,R4						
0048	00001.000	FA		0972947-0075	RES FIX 2.7K OHM 5% .5 W CARBON FILM	ROH	- R-50				
0048A					R55						
0050	00001.000	FA		0972946-0072	RES FIX 2.0K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0050A					R34						
0051	00001.000	FA		0972946-0069	RES FIX 1.5K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0051A					R38						
0052	00001.000	FA		0972947-0068	RES FIX 1.3K OHM 5% .5 W CARBON FILM	ROH	- R-50				
0052A					R50						
0053	00001.000	FA		0972946-0067	RES FIX 1.2K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0053A					R35						
0055	00001.000	FA		0972947-0059	RES FIX 560 OHM 5% .5 W CARBON FILM	ROH	- R-50				
DRAFTSMAN DATE CVD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946084-2											
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV. LM0946084-5002 AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946084-5002		REV. AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0055A					R21						
0056	00001.000	FA		0972946-0058	RES FIX 510 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0056A					R17						
0057	00001.000	FA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0057A					R29						
0058	00003.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0058A					R13,R26,R32						
0060	00001.000	EA		0972946-0051	RES FIX 270 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0060A					R49						
0061	00001.000	FA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0061A					R42						
0062	00002.000	EA		0972946-0041	RES FIX 100 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0062A					R14,R53						
0063	00003.000	FA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0063A					R8,R16,R44						
0064	00001.000	EA		0972946-0037	RES FIX 68.0 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0064A					R15						
0065	00005.000	FA		0972946-0035	RES FIX 56.0 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0065A					R43,R45,R46,R47,R48						
0066	00001.000	EA		0972946-0034	RES FIX 51.0 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
DRAFTSMAN DATE CVD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946084-2											
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV. LM0946084-5002 AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946084-5002		REV. AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0066A					R51						
0067	00001.000	FA		0972946-0017	RES FIX 10.0 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0067A					R52						
0075	00001.000	FA		0418356-2286	CAP FIX 10 MF 20V 10% TANTALUM SOLID	OPL	-M39003/1-2286				
0075A					C13						
0075	00001.000	FA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT	OPL	-M39003/1-2283				
0076A					C16						
0077	00002.000	EA		0972924-0017	CAP FIX TANT SOLID 1.0 MFD 10 % 35 VOLT	SPP	-150D105X9035A				
0077A					C12 C19						
0080	00010.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0080A					C23,C24,C25,C26,C27,C28,C29						
0080B					C30,C38,C40						
0126	00001.000	FA		0972946-0091	RES FIX 12 K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0126A					R28						
0129	00002.000	FA		0222222-7417	NETWORK-SN7417N						
0129A					U18,U19						
0136	00001.000	FA		0972037-3100	NETWORK,RES 1.0K OHM 2% 16PIN BELEMENT	BEC	- 898-3-P1.0K				
0136A					U16						
0138	00018.000	FA		0972456-0002	PIN,.025 SQUARE	BFI	- 75491-002				
0138A					J3 J4 J5						
DRAFTSMAN DATE CVD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946084-2											
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV. LM0946084-5002 AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946084-5001		REV. AJ	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	FA		0948575-0001	PWR,911 POWER SUPPLY						
0004	00001.000	FA		0972639-0001	NETWORK, SN75113N						
0004A					U11						
0005	00001.000	FA		0972189-0002	NETWORK SN75115N			-TI-SN75115N			
0005A					U8						
0008	00001.000	EA		0972900-7400	NETWORK SN74LS00N			TI -SN74LS00N			
0008A					U13						
0010	00001.000	EA		0972900-7474	NETWORK SN74LS74N						
0010A					U17						
0011	00001.000	FA		0972782-0001	NETWORK SN74LS132N			TI -SN74LS132N			
0011A					U9						
0012	00001.000	FA		0222222-7123	NETWORK SN74123N						
0012A					U6						
0013	00001.000	FA		0996033-0001	IC,TIMING DELAY NE556			TI -NE556			
0013A					U5						
0014	00001.000	FA		0222222-7414	NETWORK SN7414N						
0014A					U4						
0016	00001.000	FA		0972662-0001	NETWORK,SN74723N						
0016A					U7						
0026	00004.000	FA		0972932-0001	DIOFF IN914R			SEE TI- DRAWING			
DRAFTSMAN DATE CVD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946084-1											
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV. LM0946084-5001 AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946084-5001		REV AJ	
QTY	UNIT	QTY	UNIT	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0076A					CR4 CR6 CR17 CR18						
0032	00001.000	EA		0972037-3220	NETWORK, RES 2.2K OHM 2% 16PIN ELEMENT						
0032A					U12						
0033	00001.000	EA		0972946-0117	RES FIX 150K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0033A					R39						
0034	00001.000	EA		0972946-0106	RES FIX 51 K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0034A					R23						
0035	00001.000	FA		0539370-0538	RES FIX FILM 39.2K OHM 1% .25 WATT	CDR	- NA55				
0035A					R31						
0036	00001.000	FA		0972946-0101	RES FIX 33 K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0036A					R25						
0038	00002.000	FA		0972946-0096	RES FIX 20 K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0038A					R33, R37						
0039	00002.000	FA		0972946-0094	RES FIX 16 K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0039A					R18, R19						
0042	00001.000	EA		0539370-0462	RES FIX FILM 6.34K OHM 1% .25 WATT	CDR	- NA55				
0042A					R24						
0043	00002.000	FA		0972946-0082	RES FIX 5.1K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0043A					R10, R11						
0044	00003.000	EA		0972946-0081	RES FIX 4.7K OHM 5% .25 W CARBON FILM	ROH	- R-25				
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946084-1											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946084-5001 AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946084-5001		REV AJ	
QTY	UNIT	QTY	UNIT	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0044A					R12, R22, R40						
0045	00001.000	FA		0972946-0080	RES FIX 4.3K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0045A					R9						
0046	00001.000	FA		0972946-0079	RES FIX 3.9K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0046A					R41						
0047	00002.000	FA		0972946-0077	RES FIX 3.3K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0047A					R2, R4						
0048	00001.000	FA		0972947-0075	RES FIX 2.7K OHM 5% .5 W CARBON FILM	ROH	- R-50				
0048A					R55						
0050	00001.000	FA		0972946-0072	RES FIX 2.0K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0050A					R34						
0051	00001.000	FA		0972946-0069	RES FIX 1.5K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0051A					R38						
0052	00001.000	FA		0972947-0068	RES FIX 1.3K OHM 5% .5 W CARBON FILM	ROH	- R-50				
0052A					R50						
0053	00001.000	EA		0972946-0067	RES FIX 1.2K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0053A					R35						
0055	00001.000	FA		0972947-0059	RES FIX 560 OHM 5% .5 W CARBON FILM	ROH	- R-50				
0055A					R21						
0056	00001.000	FA		0972946-0058	RES FIX 510 OHM 5% .25 W CARBON FILM	ROH	- R-25				
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946084-1											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946084-5001 AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946084-5001		REV AJ	
QTY	UNIT	QTY	UNIT	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0056A					R17						
0057	00001.000	FA		0972946-0057	RES FIX 470 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0057A					R29						
0058	00003.000	FA		0972946-0053	RES FIX 330 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0058A					R13, R26, R32						
0060	00001.000	FA		0972946-0051	RES FIX 270 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0060A					R49						
0061	00001.000	FA		0972946-0045	RES FIX 150 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0061A					R42						
0062	00001.000	EA		0972946-0041	RES FIX 100 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0062A					R14						
0063	00003.000	FA		0972946-0038	RES FIX 75.0 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0063A					R8, R16, R44						
0064	00001.000	FA		0972946-0037	RES FIX 68.0 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0064A					R15						
0065	00005.000	FA		0972946-0035	RES FIX 56.0 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0065A					R43, R45, R46, R47, R48						
0075	00001.000	FA		0418356-2286	CAP FIX 10 MF 20V 10% TANTALUM SOLID	QPL	-M39003/1-2286				
0075A					C13						
0075	00001.000	FA		0972946-0013	CAP FIX TANT SOLID 2.2 MFD 10% 20 VOLT	QPL	-M39003/1-2286				
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946084-1											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946084-5001 AJ											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946084-5001		REV AJ	
QTY	UNIT	QTY	UNIT	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0076A					C16						
0077	00002.000	FA		0972924-0017	CAP FIX TANT SOLID 1.0 MFD 10% 35 VOLT	SPP	-1500105X9035A				
0077A					C12, C19						
0080	00010.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0080A					C23, C24, C25, C26, C27, C28, C29						
0080B					C30, C38, C40						
0126	00001.000	FA		0972946-0091	RES FIX 12 K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0126A					R28						
0129	00002.000	FA		0222222-7417	NETWORK-SMT417N						
0129A					U18, U19						
0136	00001.000	EA		0972937-3100	NETWORK, RES 1.0K OHM 2% 16PIN ELEMENT	BFC	- 898-3-P1.0K				
0136A					U16						
0138	00018.000	FA		0972456-0002	PIN, .025 SQUARE	BFI	- 754R1-002				
0138A					J3, J4, J5						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946084-1											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946084-5001 AJ											

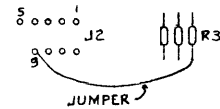
NOTES: UNLESS OTHERWISE SPECIFIED;

1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



00 AND 04 DEVICE TYPE
 4, 5 AND 6 PIN NUMBERS
 U5 AND U19 REFERENCE DESIGNATOR

- 5 F2 IS INSTALLED ONLY ON -0002 AND IS REPLACED BY A JUMPER ON THE -0001
- 6 TO USE THE MODIN LINE APPLY A JUMPER FROM J2 PIN 9 TO THE BOTTOM LEAD OF R34



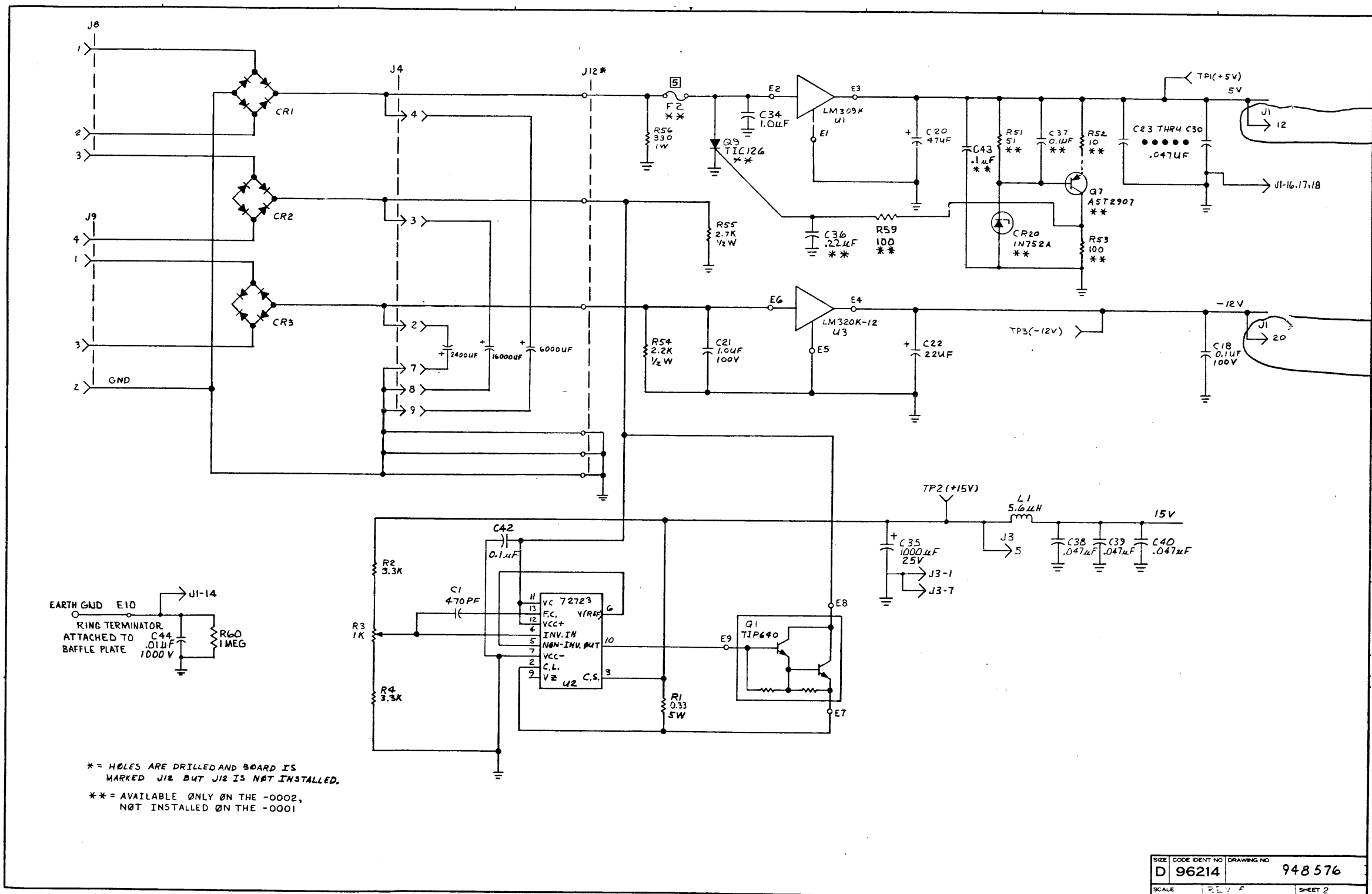
REVISIONS			
ZONE	LETTER	DESCRIPTION	DATE
	A	INITIAL DESIGN	7-25-77
	B	REVISED	8-1-77
	C	REVISED	9-1-77
	D	REVISED	9-1-77
	E	CN 427486 (C) R. FEELER	1-2-78
	F	CN 427486 (C) R. FEELER	1-2-78
	G	CN 427486 (C) R. FEELER	5-1-78
	H	CN 442765 (C) J. TUDH	7-5-78

HIGHEST REF DES USED	
-0001 / -5001	-0002 / -5002
C44, R60, CR23	C44, R60, CR23
Q6, U19, LI, J9	Q9, U19, LI, J9

REV STATUS	REV	H	F	G	H
OF SHEETS	SHEET	1	2	3	4

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST						
UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 PIR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100				DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02		
HOLE TOLERANCE .013 - .004 .126 - .005 .250 - .006 THRU - .001 THRU - .001 THRU - .001 .501 - .008 .750 - .010 1.001 - .012 THRU - .001 THRU - .001 THRU - .001 .750 - .001 1.000 - .001 2.000 - .001				MATERIAL: DWN M. FEELER 1-2-77 CHK C. FEELER 1-4-77 ENGR QA APVD CONTR NO DESIGN ACTIVITY RELEASE		
NEXT ASSY USED ON APPLICATION				TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas LOGIC DIAGRAM, 911 PDWER SUPPLY- LOGIC BOARD SIZE CODE IDENT NO DRAWING NO D 96214 948576 SCALE SHEET 1 OF 4		

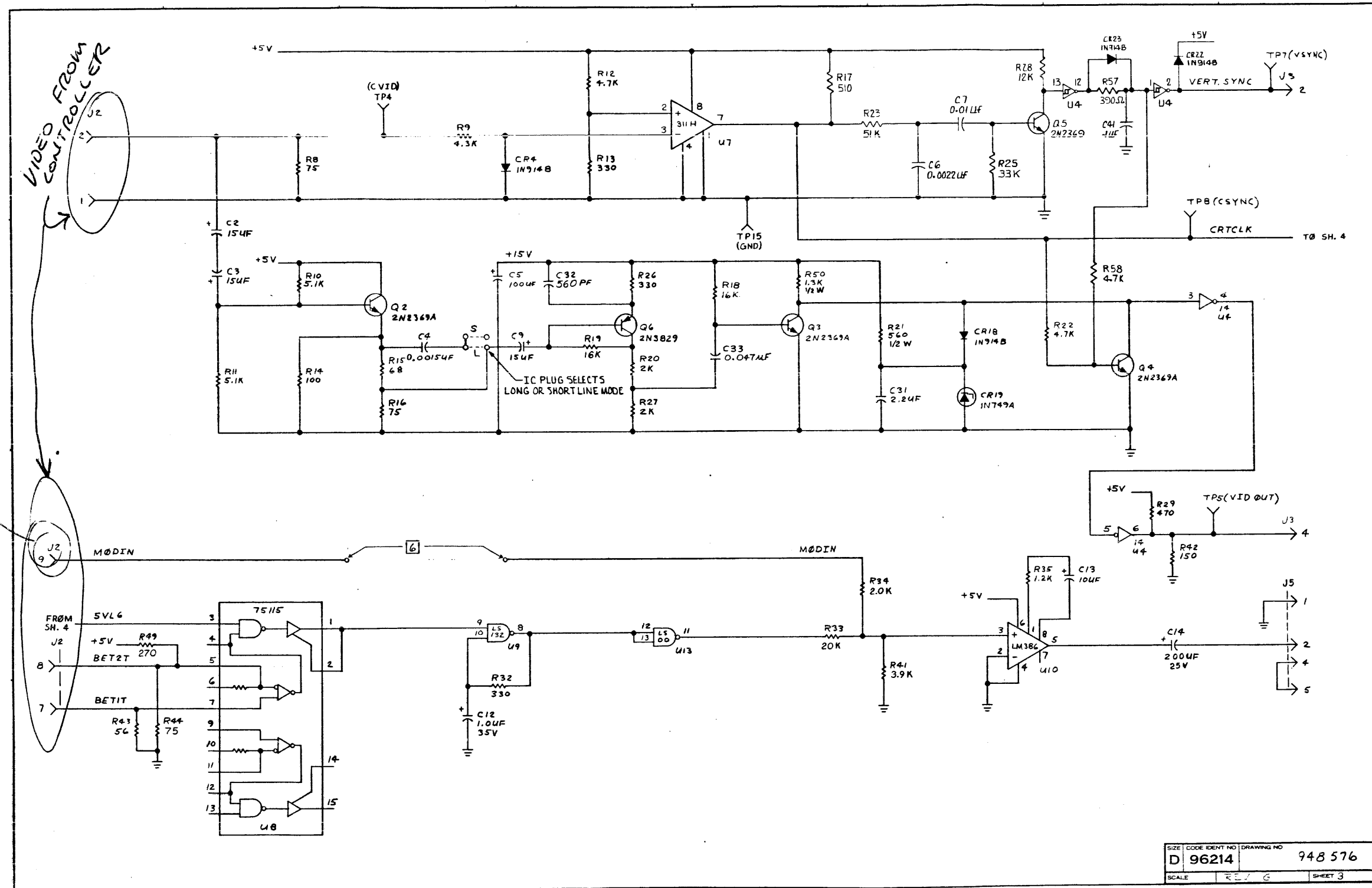
Orange



EARTH GND E10
 RING TERMINATOR
 ATTACHED TO
 C44 .01μF
 BAFFLE PLATE
 R60 1MEG

* = HOLES ARE DRILLED AND BOARD IS MARKED J12 BUT J12 IS NOT INSTALLED.
 ** = AVAILABLE ONLY ON THE -0002, NOT INSTALLED ON THE -0001

SIZE	CODE IDENT NO	DRAWING NO
D	96214	948576
SCALE	REV	SHEET 2



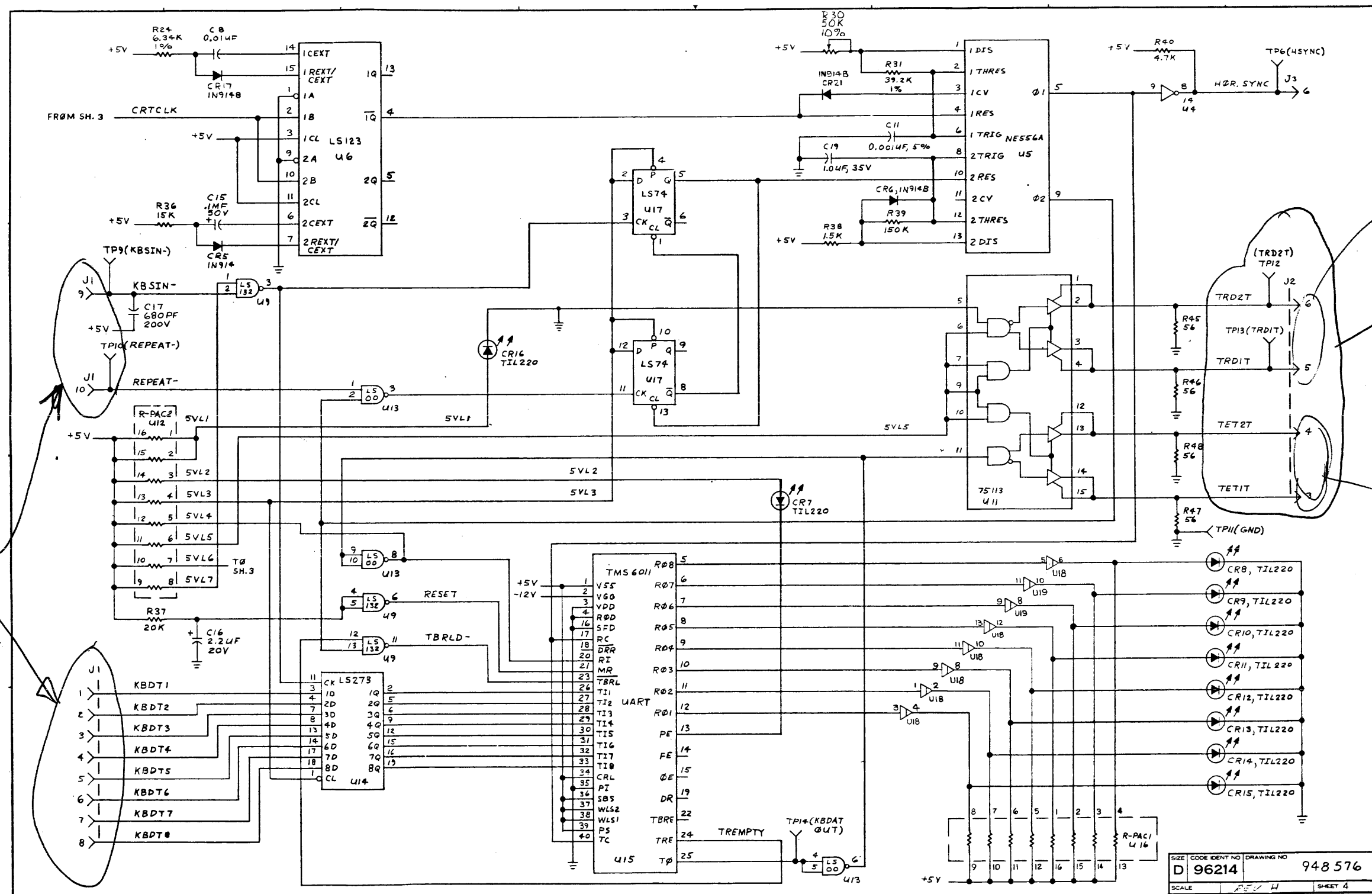
VIDEO FROM CONTROLLER

Not used

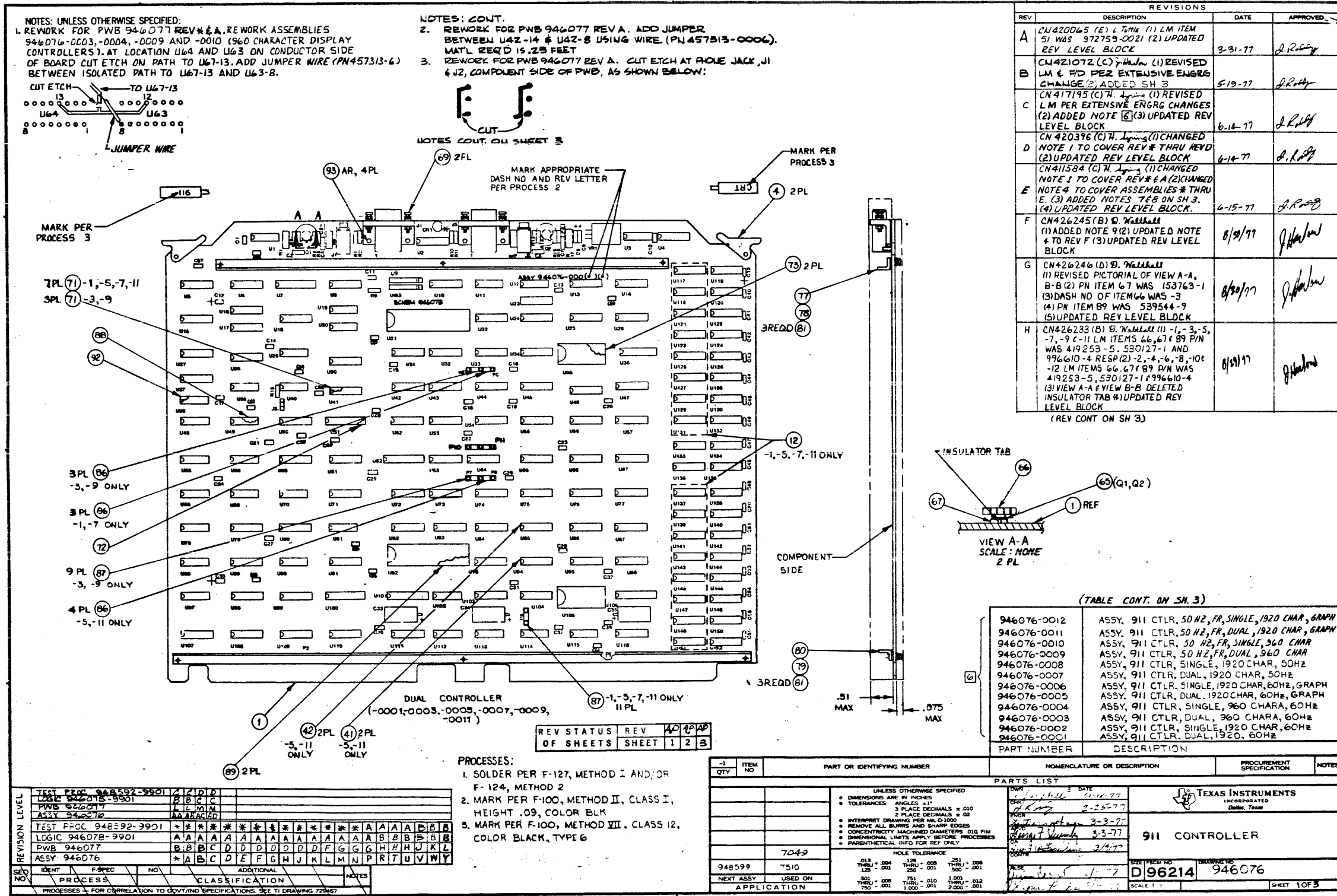
Bell?

SIZE	CODE IDENT NO	DRAWING NO
D	96214	948 576
SCALE	REL / G	SHEET 3

Keyboard



SIZE	CODE IDENT NO	DRAWING NO
D	96214	948576
SCALE	REV H	SHEET 4



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN420045 (E) L TMH (1) LM ITEM 51 WAS 972759-0021 (2) UPDATED REV LEVEL BLOCK	3-31-77	J. R. Roff
B	CN421072 (C) W. W. Hall (1) REVISED LM & PD PER EXTENSIVE ENGRG CHANGE (2) ADDED SH 3	5-19-77	J. R. Roff
C	CN417195 (C) W. W. Hall (1) REVISED LM PER EXTENSIVE ENGRG CHANGES (2) ADDED NOTE (3) UPDATED REV LEVEL BLOCK	6-16-77	J. R. Roff
D	CN420396 (C) W. W. Hall (1) CHANGED NOTE 1 TO COVER REV # THRU REV D (2) UPDATED REV LEVEL BLOCK	6-16-77	J. R. Roff
E	CN411584 (C) W. W. Hall (1) CHANGED NOTE 1 TO COVER REV # & A (2) CHANGED NOTE 4 TO COVER ASSEMBLIES # THRU E. (3) ADDED NOTES 7 & 8 ON SH 3. (4) UPDATED REV LEVEL BLOCK.	6-15-77	J. R. Roff
F	CN426245 (B) B. W. Hall (1) ADDED NOTE 9 (2) UPDATED NOTE 4 TO REV F (3) UPDATED REV LEVEL BLOCK	8/2/77	J. W. Hall
G	CN426246 (D) B. W. Hall (1) REVISED PICTORIAL OF VIEW A-A, B-B (2) PN ITEM 67 WAS 153763-1 (3) DASH NO OF ITEM 66 WAS -3 (4) PN ITEM 89 WAS 539544-9 (5) UPDATED REV LEVEL BLOCK	8/2/77	J. W. Hall
H	CN426233 (B) B. W. Hall (1) -1, -3, -5, -7, -9, -11 LM ITEMS 66, 67 & 89 P/N WAS 419253-5, 530127-1 AND 996610-4 RESP (2) -2, -4, -6, -8, -10, -12 LM ITEMS 66, 67 & 89 P/N WAS 419253-5, 530127-1 & 996610-4 (3) VIEW A-A VIEW B-B DELETED INSULATOR TAB (4) UPDATED REV LEVEL BLOCK	8/15/77	J. W. Hall

(REV CONT ON SH 3)

(TABLE CONT. ON SH. 3)

PART NUMBER	DESCRIPTION
946076-0012	ASSY, 911 CTR, 50 HZ, FR, SINGLE, 1920 CHAR, GRAPH
946076-0011	ASSY, 911 CTR, 50 HZ, FR, DUAL, 1920 CHAR, GRAPH
946076-0010	ASSY, 911 CTR, 50 HZ, FR, SINGLE, 960 CHAR
946076-0009	ASSY, 911 CTR, 50 HZ, FR, DUAL, 960 CHAR
946076-0008	ASSY, 911 CTR, SINGLE, 1920 CHAR, 50HZ
946076-0007	ASSY, 911 CTR, DUAL, 1920 CHAR, 50HZ
946076-0006	ASSY, 911 CTR, SINGLE, 1920 CHAR, 60HZ, GRAPH
946076-0005	ASSY, 911 CTR, DUAL, 1920 CHAR, 60HZ, GRAPH
946076-0004	ASSY, 911 CTR, SINGLE, 960 CHAR, 60HZ
946076-0003	ASSY, 911 CTR, DUAL, 960 CHAR, 60HZ
946076-0002	ASSY, 911 CTR, SINGLE, 1920 CHAR, 60HZ
946076-0001	ASSY, 911 CTR, DUAL, 1920 CHAR, 60HZ

REVISION LEVEL	TEST PROC	LOGIC	PWB	ASSY
	948592-9901	946076-9901	946077	946076
	948592-9901	946076-9901	946077	946076
	948592-9901	946076-9901	946077	946076
	948592-9901	946076-9901	946077	946076

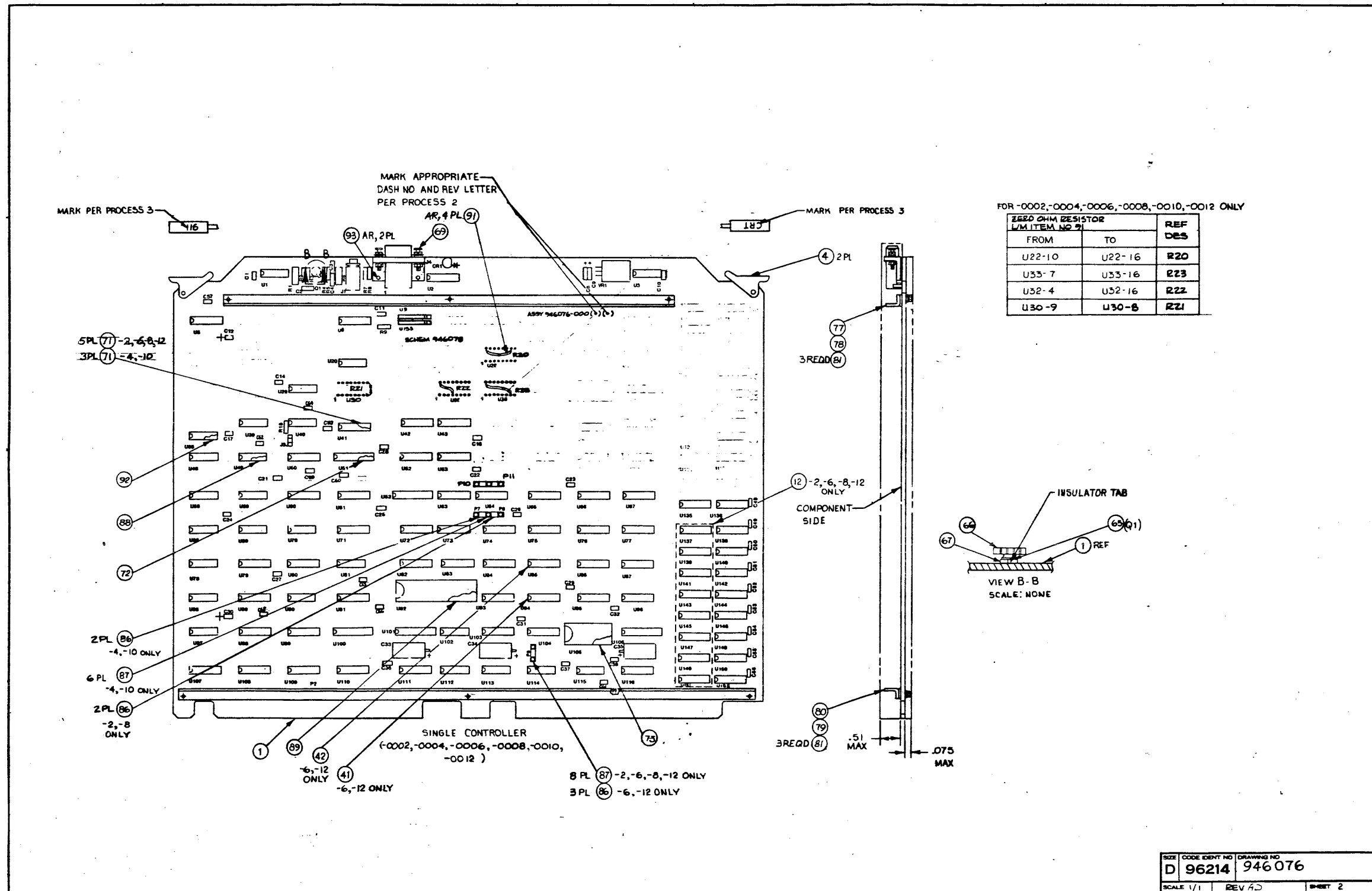
- PROCESSES:
- SOLDER PER F-127, METHOD I AND/OR F-124, METHOD 2
 - MARK PER F-100, METHOD II, CLASS I, HEIGHT .09, COLOR BLK
 - MARK PER F-100, METHOD VII, CLASS I2, COLOR BLACK, TYPE 6

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 TOLERANCES: ANGLES ±1°
 3 PLACE DECIMALS ±.010
 2 PLACE DECIMALS ±.02
 INTERPRET DRAWING PER MIL-D-100
 REMOVE ALL BURRS AND SHARP EDGES
 CONCENTRICITY MACHINED DIAMETERS 0.10 FIM
 DIMENSIONAL LIMITS APPLY BEFORE PROCESSING
 PARENTHESES INFO FOR REF ONLY

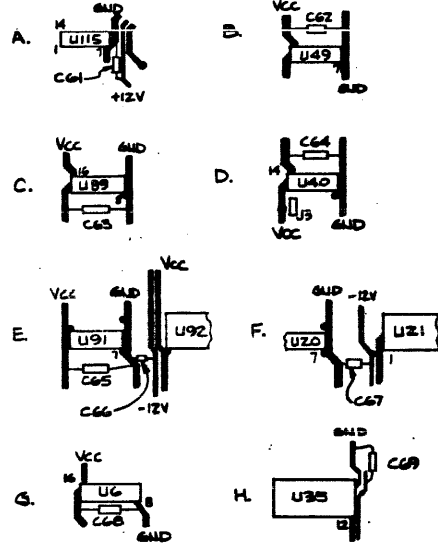
HOLE TOLERANCE:
 .011 ±.004 THRU .128 ±.005 THRU .251 ±.008
 .128 ±.004 THRU .250 ±.001 500 ±.002
 .251 ±.004 THRU .500 ±.001 500 ±.002
 .501 ±.008 THRU 1.000 ±.012 THRU 2.000 ±.021

DATE: 8/15/77
 DRAWN: J. R. Roff
 CHECKED: J. R. Roff
 APPROVED: J. R. Roff
 PARTS LIST: 911 CONTROLLER
 D96214 946076
 SHEET 1 OF 3



NOTES CONT.

4. REWORK FOR ASSEMBLIES REV # A, B, C, D, E, F ADD CAPACITORS (ITEM 51) AS SHOWN BELOW, COMPONENT SIDE. USE INSULATION (ITEM 103) AS REQD ON CAPACITOR LEADS. PERFORM A THRU ON ALL ASSEMBLIES; PERFORM F, G & H ONLY ON -0001, -0003, -0005, -0007, -0009 & -0011 ASSEMBLIES (DUAL'S)



5. REWORK FOR ASSEMBLIES REV # & A. ADD 6 NON-METALLIC WASHERS, PN#8730-D101 BETWEEN BOARD CONDUCTOR SIDE & HEAD OF HEX SCREWS (ITEM 61)

- 6. ITEM 105 IN L/M'S FOR -0001 THRU -0012 CONSISTS OF COMPONENTS TO BE AUTO-INSERTED.
7. REWORK FOR ASSEMBLIES REV D. DELETE JUMPER SOLDER SIDE ADDED AT LOCATION U63 & USE WIRE (PN457313-6) TO JUMPER ACROSS CUT ETCH. (NOTE 1 REWORK SHOULD NOT HAVE BEEN PERFORMED) INSULATION ON WIRE IS NOT REQUIRED.
8. REWORK FOR PWB 946077 REV C OR D. AT U64 ON SOLDER SIDE OF THE BOARD, CUT ETCH BETWEEN U64-12 AND U67-14. ADD JUMPER WIRE ON SOLDER SIDE BETWEEN U64-14 AND U67-14.



- 9. REWORK FOR PWB 946077 REV D. (BOARDS WITH SERIAL NUMBERS PREFIXED BY 081 DO NOT REQUIRE REWORK). MARK ASSY TO REV F.
A. PROCEDURE FOR NEW BOARDS BEFORE FLOW SOLDER - BEND PIN 40 OF SOCKET (ITEM 89) FOR LOCATION U92 OUTWARD AND SOLDER PIN TO ETCH PATH ROUTED TO U92-40.
B. PROCEDURE FOR ASSEMBLIES WHICH HAVE COMPLETED ASSY (AFTER FLOW SOLDER) - ADD TWO JUMPERS USING PN 535978-0058 WIRE, 30 AWG, ABOUT 2 FOOT REQD. CONNECT LI02-9 TO K92-40 AND U92-17 TO U50-5. IF PIN AT U92-40 IS CRUSHED UNDER SOCKET, REMOVE SOCKET & REPLACE WITH NEW SOCKET PER PROCEDURE 9A AND JUMPERS ARE NOT REQD.

NOTES: CONT

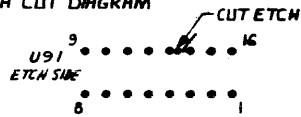
10. (A) REWORK FOR -0001, -0003, -0005, -0007, -0009 & -0011 ASSYS USING PWB 946077 REV G:

JUMPER U26 PIN 16 TO ADJACENT VCC ETCH USING WIRE PN 535978-0058 (ITEM 106) ON THE COMPONENT SIDE. ON THE ETCH SIDE, CUT THE ETCH BETWEEN PINS 13 AND 14 ON U91 (SEE PART C), ADD A JUMPER BETWEEN R2 AND R3 AT LEADS ADJACENT TO C2. ADD A JUMPER AT U48 PIN 9 TO THE ADJACENT LEAD OF C39 (GND), AND ADD A JUMPER AT U76 PIN 9 TO THE PLATED THRU HOLE IMMEDIATELY BENEATH U76, PLACING THE WIRE IN THE PLATED THRU HOLE.

(B) REWORK FOR -0002, -0004, -0006, -0008, -0010 & -0012 ASSY USING PWB 946077 REV G:

ON THE ETCH SIDE, CUT THE ETCH BETWEEN PINS 13 AND 14 ON U91 (SEE PART C), ADD A JUMPER BETWEEN R2 AND R3 AT THE LEADS ADJACENT TO C2 USING WIRE PN 535978-0058 (ITEM 106), AND ADD A JUMPER AT U76 PIN 9 TO THE PLATED THRU HOLE IMMEDIATELY BENEATH U76, PLACING THE WIRE IN THE PLATED THRU HOLE

(C) ETCH CUT DIAGRAM



- 11. REWORK FOR PWB 946077 REV # THRU G. AT LOCATION U5 ADD A JUMPER BETWEEN PINS 13 AND 16, ALSO AT U5 JUMPER PINS 12 AND 4. AT LOCATION U107 CUT PIN 14. ATTACH A JUMPER FROM U5 PIN 5 TO U107 PIN 14 AT THE CHIP. USE WIRE PN 535978-0058

12. DERIVED FROM ASSY 946076-0003 THRU 946076-0012 USING MODIFICATION PROCEDURE PN 2263498-3981.

13. REWORK FOR PWB 946077 REV # THRU L. ADD TWISTED PAIR (ITEM 107) AS SHOWN BELOW ON -0003 ASSY ONLY:



14. REWORK FOR ASSEMBLIES USING PWB REV # THRU L

A. ON -0001, -0003, -0005, -0007, -0009 AND -0011 ADD CAPACITORS (ITEM 49) BETWEEN U36 PINS 8 AND 11 AND BETWEEN U26 PINS 8 AND 11 ON THE COMPONENT SIDE OF THE BOARD. NOTE, ON -0003 ASSEMBLIES IF A TWISTED PAIR TERMINATES ON U36 PINS 8 AND 11 IT IS TO BE REMOVED TO ALLOW FOR CAPACITOR INSTALLATION.

B. ON -0002, -0004, -0006, -0008, -0010 AND -0012 ADD A CAPACITOR (ITEM 49) BETWEEN U36 PINS 8 AND 11 ON THE COMPONENT SIDE OF THE BOARD.

Table with 2 columns: PART NO. and DESCRIPTION. Lists various components like AUTO INSERTION TAPE, ASSY, 911 CTRL, 50 HZ, SWED FIN, SINGLE, 1920 CHARA, GRAPHICS, etc.

Table with 4 columns: REVISIONS, DESCRIPTION, DATE, APPROVED. Lists revisions AB and AC with descriptions of component changes and dates like 7-24-79.

Table with 4 columns: REVISIONS, DESCRIPTION, DATE, APPROVED. Lists revisions J through AA with descriptions of board revisions and dates like 8/23/77, 9/29/77, 10-26-77, etc.

CONT'D 3N D-3

Form with fields for DATE (5-16-77), SIZE FROM NO (D96214), DRAWING NO (946076), and SHEET (3).

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0001		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	0001.000	EA		0946077-0001	PWB, 713 VIDEO DISPLAY CONTROLLER					
0002	0001.000	EA		0972639-0001	NETWORK, SN75113N					
0002A					U2					
0003	0002.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N				
0003A					U8,U10					
0004	0002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB					
0005	0002.000	EA		0972894-0001	IC,RDM,1024 WORD BY 8-BIT					
0005A					U35,U105					
0006	0002.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011NC				
0006A					U21,U92					
0007	0002.000	EA		0996307-0001	IC,SN74S373,OCTAL D, FLIPFLOP	TI -SN74S373				
0007A					U36,U106					
0008	0006.000	EA		0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169				
0008A					U44,U45,U46,U74,U75,U76					
0009	0002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74353N	-SN74353N				
0009A					U58,U68					
0010	0001.000	EA		0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A				
0010A					U38					
0011	0002.000	EA		0972141-0057	NETWORK,RES. 4.7 K OHM 2 x 14 PIN DIP	BEC - 899-1-R4.7K				
0011A					U12,U114					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,DUAL,1920,60HZ		
APPROVED		DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO	7510	PART NUMBER	REV
									LM0946076-0001	AC

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-0001		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0012	0002.000	EA		0996306-0001	IC,STATIC RAM MEMORY	TI -TMS 4033				
0012A					U117 THRU U132,					
0012B					U137 THRU U152					
0013	00008.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N					
0013A					U32,U57,U67,U83,U133,U134					
0013B					U135,U136					
0014	00005.000	EA		0972900-7139	NETWORK SN74LS139N	TI -SN74LS139N				
0014A					U4,U22,U93,U103,U116					
0015	00004.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N				
0015A					U3,U70,U78,U115					
0016	00001.000	EA		0972556-0001	NETWORK SN74367N	TI -SN74367N				
0016A					U109					
0017	00006.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N				
0017A					U13,U30,U71,U72,U73,U86					
0018	00002.000	EA		0972900-7404	NETWORK SN74LS04N					
0018A					U39,U113					
0019	00003.000	EA		0972749-0001	NETWORK, SN74LS08N					
0019A					U20,U81,U97					
0020	00010.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N				
0020A					U15,U17,U27,U37,U43,U79,U89					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,DUAL,1920,60HZ		
APPROVED		DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO		PART NUMBER	REV
									LM0946076-0001	AC

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946076-0001		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0020B					U108,U110,U111					
0021	0002.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N				
0021A					U28,U99					
0022	00008.000	EA		0972159-7251	NETWORK SN74251N	TI -SN74251N				
0022A					U25,U31,U33,U47,U77,U82,U84					
0022B					U95					
0023	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N				
0023A					U29,U88,U90					
0024	00006.000	EA		0972815-0001	NETWORK-SN74LS85N					
0024A					U54,U55,U56,U64,U65,U66					
0025	00004.000	EA		0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI -SN74LS298N				
0025A					U14,U26,U87,U96					
0026	00003.000	EA		0972900-7402	NETWORK SN74LS02N					
0026A					U11,U69,U112					
0027	00004.000	EA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273N				
0027A					U7,U62,U100,U101					
0028	00001.000	EA		0972814-0001	NETWORK-SN74LS27N					
0028A					U48					
0029	00002.000	EA		0972900-7174	NETWORK SN74LS174N					
0029A					U5,U6					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,DUAL,1920,60HZ		
APPROVED		DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO		PART NUMBER	REV
									LM0946076-0001	AC

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946076-0001		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0030	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N				
0030A					U40,U59					
0031	00001.000	EA		0972688-0001	NETWORK SN74LS164N					
0031A					U49					
0032	00002.000	EA		0972900-7410	NETWORK SN74LS10N					
0032A					U19,U102					
0033	00002.000	EA		0801383-0001	NETWORK SN74LS151N					
0033A					U16,U91					
0034	00002.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N				
0034A					U18,U80					
0035	00001.000	EA		0972556-0002	NETWORK SN74368N					
0035A					U107					
0036	00001.000	EA		0972856-0001	NETWORK, SN74376N					
0036A					U50					
0037	00004.000	EA		0222222-7163	NETWORK SN74163N					
0037A					U53,U60,U61,U63					
0038	00001.000	EA		0222222-7162	NETWORK,SN74162N					
0038A					U41					
0039	00002.000	EA		0222222-7166	NETWORK SN74166N					
0039A					U34,U104					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,DUAL,1920,60HZ		
APPROVED		DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO		PART NUMBER	REV
									LM0946076-0001	AC

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946076-0001		REV AC		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0040	0001.000	EA		022222-7406	NETWORK SN7406N							
0040A					U1							
0043	0001.000	EA		0948554-0002	ROM, 713 CRT, 256X4, ROM DECODER 60/1920							
0043A					U52							
0044	0001.000	EA		0948554-0003	ROM, 713 CRT, 256X4, SYNC DECODER 60/1920							
0044A					U42							
0045	0001.000	EA		0948554-0001	ROM, 713 CRT, 256X8, CHARA DECODER DRIVE							
0045A					U51							
0046	0001.000	EA		0972499-0001	NETWORK, LM320T-5.0/MC7905CP, -5 VOLT	SEE	-	TI	DRAWING			
0046A					VR1							
0049	00004.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 X 200 V	QPL	-	M39014/01-1379				
0049A					C3, C6, C70, C71							
0050	00004.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	QPL	-	CK068X104K				
0050A					C2, C4, C5, C7							
0051	00019.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%							
0051A					C39 THRU C56 C68							
0052	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 X 10 VOLT	QPL	-	M39003/1-2263				
0052A					C34							
0053	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 X 20 VOLT	QPL	-	M39003/1-2301				
0053A					C33, C35							
DRAFTSMAN		DATE	CEG DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 CTRL, DUAL, 1920, 60HZ				
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV		
								LM0946076-0001		AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946076-0001		REV AC		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0054	00002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093368-784-1R56						
0054A					U9, U153							
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH	-	R-25				
0062A					R9							
0063	00002.000	EA		0996395-0001	PHONE JACK, MINIATURE, 3.5 MM	SG-802-6						
0063A					J1, J2							
0064	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220							
0064A					CR1							
0065	00002.000	EA		0972948-0001	TRANSISTOR, NPN, GEN. PURP. SW TO-5	TI	-	2N2219A				
0065A					Q1, Q2							
0066	00002.000	EA		0419253-0005	HEATSINK, TRANSISTOR	005820-204-C8						
0067	00002.000	EA		0530127-0001	PAD, MOUNTING, TO-18 4 LEAD, WHITE	013103- 7717-44N						
0068	00002.000	EA		0972854-0002	CONN 9PIN PC RECP	000779-207084-2						
0068A					J4, J5							
0069	00002.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI	-	206514-1				
0070	00001.000	EA		0772696-0010	HEADER, 3 PIN .300LG SGL ROW, STRIP OF 3	-0002364						
0070A					J3							
0071	00007.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 7 CONT, 16 PINS	003612-D1L816P-108						
0071A					XU23, XU24, XU41, XU42, XU52,							
0071B					XU85, XU94							
DRAFTSMAN		DATE	CEG DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 CTRL, DUAL, 1920, 60HZ				
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV		
								LM0946076-0001		AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0946076-0001		REV AC		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0072	00001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1L820P-108						
0072A					XU51							
0073	00002.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-D1L824P-108						
0073A					XU35, XU105							
0077	00001.000	EA		0946707-0001	STIFFENER, PWB, 11 INCH							
0078	00001.000	EA		0946708-0001	INSULATOR, STIFFENER, PWB, 11 INCH							
0079	00001.000	EA		0944954-0001	INSULATOR, PWB, 14IN							
0080	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN							
0081	00006.000	EA		0972684-0002	SCREW, THD FRMG, HEX WSHR HD, 2-56X1/4 LG							
0086	00003.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH							
0086A					P6 P8 P10							
0087	00011.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75060-007						
0088	00001.000	EA		2210188-0002	SOCKET, LOW PROFILE, DIP, 14 PINS	003612-D1L814P-108						
0088A					XU49							
0089	00002.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-D1L840P-108						
0089A					XU21 XU92							
0090	00001.000	EA		0972787-0003	NETWORK SN74LS367N							
0090A					U98							
0092	00001.000	EA		0537137-0001	INSULATOR, PLATE, EIGHT LEAD DEVICE	013103-7717-156N						
0092A					XU38							
DRAFTSMAN		DATE	CEG DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 CTRL, DUAL, 1920, 60HZ				
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV		
								LM0946076-0001		AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM0946076-0001		REV AC		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0093	00000.001	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302						
0100	REF	EA		0946122-9901	SPECIFICATION, 911 CRT DISPLAY TRML KIT							
0101	REF	EA		0946078-9901	LOGIC DIAGRAM, 911 VDT CONTROLLER							
0102	REF	EA		0948592-9901	TEST PROCEDURE, 911 UNIT, SPARES, SYSTEM							
0103	00001.000	FT		0410499-0006	INSULATION SLEEVING, TEFLON #22 NATURAL	QPL	-	81349				
0104	00006.000	EA		0418730-0101	WASHER, NYLON							
0105	00001.000	EA		0946076-5001	AUTO INSERTION TAPE FOR 946076-0001							
0106	00001.200	FT		0535978-0058	WIRE ELEC., SOLID, "KYNAR" INSUL #30 AWG							
DRAFTSMAN		DATE	CEG DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, 911 CTRL, DUAL, 1920, 60HZ				
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV		
								LM0946076-0001		AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0002		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0946077-0001	PWB, 713 VIDEO DISPLAY CONTROLLER						
0002	00001.000	EA		0972639-0001	NETWORK, SN75113N						
0002A					U2						
0003	00001.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N					
0003A					U8						
0004	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0005	00001.000	EA		0972894-0001	IC,ROM,1024 WORD BY 8-BIT						
0005A					U105						
0006	00001.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011NC					
0006A					U92						
0007	00001.000	EA		0996307-0001	IC,SN74S373,OCTAL D, FLIPFLOP	TI -SN74S373					
0007A					U106						
0008	00003.000	EA		0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169					
0008A					U74,U75,U76						
0009	00002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74393N	-SN74393N					
0009A					U58,U68						
0010	00001.000	EA		0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A					
0010A					U38						
0011	00001.000	EA		0972141-0057	NETWORK,RES. 4.7 K OHM 2 % 14 PIN DIP	BEC - 899-1-R4.7K					
0011A					U114						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR 60HZ											
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV AC LM0946076-0002 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-0002		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0012	00016.000	EA		0996306-0001	IC,STATIC RAM MEMORY	TI -TMS 4033					
0012A					U137 THRU U152						
0013	00004.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0013A					U67,U83,U135,U136						
0014	00003.000	EA		0972900-7139	NETWORK SN74LS139N	TI -SN74LS139N					
0014A					U93,U103,U116						
0015	00004.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N					
0015A					U3,U70,U78,U115						
0016	00001.000	EA		0972556-0001	NETWORK SN74367N	TI- -SN74367N					
0016A					U109						
0017	00004.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N					
0017A					U71,U72,U73,U86						
0018	00002.000	EA		0972900-7404	NETWORK SN74LS04N						
0018A					U39,U113						
0019	00003.000	EA		0972749-0001	NETWORK, SN74LS08N						
0019A					U20,U81,U57						
0020	00006.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N					
0020A					U43,U79,U89,U108,U110,U111						
0021	00001.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N					
0021A					U99						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR 60HZ											
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV AC LM0946076-0002 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946076-0002		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0022	00004.000	EA		0972159-7251	NETWORK SN74251N	TI -SN74251N					
0022A					U77,U82,U84,U95						
0023	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N					
0023A					U29,U88,U90						
0024	00003.000	EA		0972815-0001	NETWORK-SN74LS85N						
0024A					U64,U65,U66						
0025	00002.000	EA		0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI -SN74LS298N					
0025A					U87,U96						
0026	00002.000	EA		0972900-7402	NETWORK SN74LS02N						
0026A					U69,U112						
0027	00003.000	EA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273N					
0027A					U62,U100,U101						
0028	00001.000	EA		0972814-0001	NETWORK-SN74LS27N						
0028A					U48						
0029	00001.000	EA		0972900-7174	NETWORK SN74LS174N						
0029A					U5						
0030	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N					
0030A					U40,U59						
0031	00001.000	EA		0972688-0001	NETWORK SN74LS164N						
0031A					U49						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR 60HZ											
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV AC LM0946076-0002 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946076-0002		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0032	00001.000	EA		0972900-7410	NETWORK SN74LS10N						
0032A					U102						
0033	00001.000	EA		0801383-0001	NETWORK SN74LS151N						
0033A					U91						
0034	00001.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N					
0034A					U80						
0035	00001.000	EA		0972556-0002	NETWORK SN74368N						
0035A					U107						
0036	00001.000	EA		0972856-0001	NETWORK, SN74376N						
0036A					U50						
0037	00004.000	EA		022222-7163	NETWORK SN74163N						
0037A					U53,U60,U61,U63						
0038	00001.000	EA		022222-7162	NETWORK,SN74162N						
0038A					U41						
0039	00001.000	EA		022222-7166	NETWORK SN74166N						
0039A					U104						
0040	00001.000	EA		022222-7406	NETWORK SN7406N						
0040A					U1						
0043	00001.000	EA		0948554-0002	ROM,713 CRT,256X4,ROM DECODER 60/1920						
0043A					U52						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR 60HZ											
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV AC LM0946076-0002 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946076-0002		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0044	0001.000	EA		0948554-0003	ROM,713 CRT,256X4,SYNC DECODER 60/1920						
0044A					U42						
0045	0001.000	EA		0948554-0001	ROM,713 CRT,256X8,CHARA DECODER DRIVE						
0045A					U51						
0046	0001.000	EA		0972499-0001	NETWORK,LM320T-5.0/MC7905CP,-5 VOLT	SEE	-	TI DRAWING			
0046A					VR1						
0049	00002.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 % 200 V	QPL	-	M39014/01-1379			
0049A					C3,C70						
0050	00002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	QPL	-	CK068X104K			
0050A					C2,C4						
0051	00009.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C48 THRU C56						
0052	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 % 10 VOLT	QPL	-	M39003/1-2263			
0052A					C34						
0053	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL	-	M39003/1-2301			
0053A					C33,C35						
0054	00002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093368	-	784-1R56			
0054A					U9,U153						
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH	-	R-25			
0062A					R9						
DRAFTSMAN _____ DATE _____ CVD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE ASSY,911CTLR,SINGLE,1920 CHAR 60HZ APP'D MFG _____ DATE _____ APP'D PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM0946076-0002 REV AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946076-0002		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0063	0001.000	EA		0996395-0001	PHONE JACK,MINIATURE,3.5 MM	SG-802-6					
0063A					J1						
0064	0001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0064A					CR1						
0065	0001.000	EA		0972948-0001	TRANSISTOR, MPN,GEN.PURP.SW TO-5	TI	-	2N2219A			
0065A					Q1						
0366	0001.000	EA		0419253-0005	HEATSINK,TRANSISTOR	005820-204-CB					
0067	0001.000	EA		0530127-0001	PAD,MOUNTING,TO-18 4 LEAD, WHITE	013103- 7717-44N					
0068	0001.000	EA		0972854-0002	CONN 9PIN PC RECP	000779-207084-2					
0068A					J4						
0069	0001.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI	-	206514-1			
0070	0001.000	EA		0772696-0010	HEADER,3 PIN .300LG SGL ROW,STRIP OF 3	-0002364					
0070A					J3						
0071	00005.000	EA		2210188-0003	SOCKET,LOW PROFILE,DIP, 7 CONT, 16 PINS	003612-D1L816P-108					
0071A					XU41,XU42,XU52,XU85,XU94						
0072	0001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1L820P-108					
0072A					XU51						
0073	0001.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-D1L824P-108					
0073A					XU105						
0077	0001.000	EA		0946707-0001	STIFFENER,PWB,1.1 INCH						
DRAFTSMAN _____ DATE _____ CVD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE ASSY,911CTLR,SINGLE,1920 CHAR 60HZ APP'D MFG _____ DATE _____ APP'D PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM0946076-0002 REV AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0946076-0002		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0078	0001.000	EA		0946708-0001	INSULATOR,STIFFENER,PWB,1.1 INCH						
0079	0001.000	EA		0944954-0001	INSULATOR, PWB, 1.4IN						
0080	0001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 1.4IN						
0081	00006.000	EA		0972684-0002	SCREW,THD FRMG,HEX WSHR HD,2-56X1/4 LG						
0086	00002.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH						
0086A					P8 P10						
0087	00008.000	EA		0996064-0001	CONNECTOR,SOCKET PCB	022526-75060-007					
0088	0001.000	EA		2210188-0002	SOCKET,LOW PROFILE,DIP, 14 PINS	003612-D1L814P-108					
0088A					XU49						
0089	0001.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-D1L840P-108					
0089A					XU92						
0090	0001.000	EA		0972787-0003	NETWORK SN74LS367N						
0090A					U98						
0091	00000.600	FT		2210083-0003	WIRE,ELEC,COND U/L STYLE 1213,24 AWG	090484-WTE24A					
0091A					R20 THRU R23						
0092	0001.000	EA		0537137-0001	INSULATOR,PLATE,EIGHT LEAD DEVICE	013103-7717-156N					
0092A					XU38						
0093	00000.001	EA		0996069-0003	ADM,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0100	REF	EA		0946122-9901	SPECIFICATION,911 CRT DISPLAY TRML KIT						
0101	REF	EA		0946078-9901	LOGIC DIAGRAM,911 VDT CONTROLLER						
DRAFTSMAN _____ DATE _____ CVD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE ASSY,911CTLR,SINGLE,1920 CHAR 60HZ APP'D MFG _____ DATE _____ APP'D PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM0946076-0002 REV AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM0946076-0002		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0102	REF	EA		0948592-9901	TEST PROCEDURE,911 UNIT,SPARES,SYSTEM						
0103	0001.000	FT		0410499-0006	INSULATION SLEEVING,TEFLON #22 NATURAL	QPL	-	81349			
0104	00006.000	EA		0418730-0101	WASHER,NYLON						
0105	0001.000	EA		0946076-5002	AUTO INSERTION TAPE FOR 946076-0002						
0106	0001.200	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG						
DRAFTSMAN _____ DATE _____ CVD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE ASSY,911CTLR,SINGLE,1920 CHAR 60HZ APP'D MFG _____ DATE _____ APP'D PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM0946076-0002 REV AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0003		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946077-0001	PMB, 713 VIDEO DISPLAY CONTROLLER							
0002	00001.000	EA		0972639-0001	NETWORK, SN75113N							
0002A					U2							
0003	00002.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N						
0003A					U8,U10							
0004	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PMB							
0005	00002.000	EA		0972894-0001	IC,ROM,1024 WORD BY 8-BIT							
0005A					U35,U105							
0006	00002.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011NC						
0006A					U21,U92							
0007	00002.000	EA		0996307-0001	IC,SN74S373,OCTAL D, FLIPFLOP	TI -SN74S373						
0007A					U36,U106							
0008	00006.000	EA		0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169						
0008A					U44,U45,U46,U74,U75,U76							
0009	00002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74393N	-SN74393N						
0009A					U58,U68							
0010	00001.000	EA		0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A						
0010A					U38							
0011	00002.000	EA		0972141-0057	NETWORK,RES. 4.7 K OHM 2 X 14 PIN DIP	BEC - 899-1-R4.7K						
0011A					U12,U114							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,DUAL,960 CHARA,60HZ				
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0003		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-0003		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0012	00016.000	EA		0996306-0001	IC,STATIC RAM MEMORY	TI -TMS 4033						
0012A					U118,U120,U122,U124,U126,							
0012B					U128,U130,U132,U138,U140,							
0012C					U142,U144,U146,U148,U150,							
0012D					U152							
0013	00008.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N							
0013A					U32,U57,U67,U83,U133,U134,							
0013B					U135,U136							
0014	00005.000	EA		0972900-7139	NETWORK SN74LS139N	TI -SN74LS139N						
0014A					U4,U22,U93,U103,U116							
0015	00004.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N						
0015A					U3,U70,U78,U115							
0016	00001.000	EA		0972556-0001	NETWORK SN74367N	TI- -SN74367N						
0016A					U109							
0017	00006.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N						
0017A					U13,U30,U71,U72,U73,U86							
0018	00002.000	EA		0972900-7404	NETWORK SN74LS04N							
0018A					U39,U113							
0019	00003.000	EA		0972749-0001	NETWORK, SN74LS08N							
0019A					U20,U81,U97							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,DUAL,960 CHARA,60HZ				
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0003		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946076-0003		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0020	00010.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N						
0020A					U15,U17,U27,U37,U43,U79,U89							
0020B					U108,U110,U111							
0021	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N						
0021A					U28,U99							
0022	00008.000	EA		0972159-7251	NETWORK SN74251N	TI -SN74251N						
0022A					U25,U31,U33,U47,U77,U82,U84							
0022B					U95							
0023	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N						
0023A					U29,U88,U90							
0024	00006.000	EA		0972815-0001	NETWORK-SN74LS85N							
0024A					U54,U55,U56,U64,U65,U66							
0025	00004.000	EA		0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI -SN74LS298N						
0025A					U14,U26,U87,U96							
0026	00003.000	EA		0972900-7402	NETWORK SN74LS02N							
0026A					U11,U69,U112							
0027	00004.000	EA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273N						
0027A					U7,U62,U100,U101							
0028	00001.000	EA		0972814-0001	NETWORK-SN74LS27N							
0028A					U48							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,DUAL,960 CHARA,60HZ				
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0003		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946076-0003		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0029	00002.000	EA		0972900-7174	NETWORK SN74LS174N							
0029A					U5,U6							
0030	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N						
0030A					U40,U59							
0031	00001.000	EA		0972688-0001	NETWORK SN74LS164N							
0031A					U49							
0032	00002.000	EA		0972900-7410	NETWORK SN74LS10N							
0032A					U19,U102							
0033	00002.000	EA		0801383-0001	NETWORK SN74LS151N							
0033A					U16,U91							
0034	00002.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N						
0034A					U18,U80							
0035	00001.000	EA		0972556-0002	NETWORK SN74368N							
0035A					U107							
0036	00001.000	EA		0972856-0001	NETWORK, SN74376N							
0036A					U50							
0037	00005.000	EA		0222222-7163	NETWORK SN74163N							
0037A					U41,U53,U60,U61,U63							
0039	00002.000	EA		0222222-7166	NETWORK SN74166N							
0039A					U34,U104							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,DUAL,960 CHARA,60HZ				
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0003		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946076-0003		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0040	00001.000	EA		022222-7406	NETWORK SN7406N							
0040A					U1							
0043	00001.000	EA		0948554-0004	ROM,713 CRT,256X4,ROM DECODER 60/960							
0043A					U52							
0044	00001.000	EA		0948554-0005	ROM,713 CRT,256X4,SYNC DECODER 60/960							
0044A					U42							
0045	00001.000	EA		0948554-0001	ROM,713 CRT,256X8,CHARA DECODER DRIVE							
0045A					U51							
0046	00001.000	EA		0972499-0001	NETWORK,LM320T-5.0/MCT905CP,-5 VOLT	SEE	- TI DRAWING					
0046A					VR1							
0049	00004.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 % 200 V	QPL	-M39014/01-1379					
0049A					C3,C6,C70,C71							
0050	00004.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	QPL	- CK068X104K					
0050A					C2,C4,C5,C7							
0051	00019.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%							
0051A					C39 THRU C56 C68							
0052	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 % 10 VOLT	QPL	-M39003/1-2263					
0052A					C34							
0053	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL	-M39003/1-2301					
0053A					C33,C35							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,DUAL,960 CHARA,60HZ					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM0946076-0003					

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946076-0003		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0054	00002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093368-784-1R56						
0054A					U9,U153							
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH	- R-25					
0062A					R9							
0063	00002.000	EA		0996395-0001	PHONE JACK,MINIATURE,3.5 MM	SG-802-6						
0063A					J1,J2							
0064	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220							
0064A					CR1							
0065	00002.000	EA		0972948-0001	TRANSISTOR, NPN,GEN.PURP.SM TO-5	TI	- 2N2219A					
0065A					Q1,Q2							
0066	00002.000	EA		0419253-0005	HEATSINK,TRANSISTOR	005820-204-CB						
0067	00002.000	EA		0530127-0001	PAD,MOUNTING,TO-18 4 LEAD, WHITE	013103- 7717-44N						
0068	00002.000	EA		0972854-0002	CONN 9PIN PC RECP	000779-207084-2						
0068A					J4,J5							
0069	00002.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI	-206514-1					
0070	00001.000	EA		0772696-0010	HEADER,3 PIN .300LG SGL ROW,STRIP OF 3	-0002164						
0070A					J3							
0071	00003.000	EA		2210188-0003	SOCKET,LOW PROFILE,DIP, 7 CONT, 16 PINS	003612-D1LB16P-108						
0071A					XU41,XU42,XU52							
0072	00001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1LB20P-108						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,DUAL,960 CHARA,60HZ					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM0946076-0003					

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0946076-0003		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0072A					XU51							
0073	00002.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-D1LB24P-108						
0073A					XU35,XU105							
0077	00001.000	EA		0946707-0001	STIFFENER,PWB,11 INCH							
0078	00001.000	EA		0946708-0001	INSULATOR,STIFFENER,PWB,11 INCH							
0079	00001.000	EA		0944954-0001	INSULATOR, PWB, 14IN							
0080	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN							
0081	00006.000	EA		0972684-0002	SCREW,THD FRMG,HEX WSHR HD,2-56X1/4 LG							
0086	00003.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH							
0086A					P5 P7 P11							
0087	00009.000	EA		0996864-0001	CONNECTOR,SOCKET PCB	022526-75060-007						
0088	00001.000	EA		2210188-0002	SOCKET,LOW PROFILE,DIP, 14 PINS	003612-D1LB14P-108						
0088A					XU49							
0089	00002.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-D1LB40P-108						
0089A					XU21 XU92							
0090	00001.000	EA		0972787-0003	NETWORK SN74LS367N							
0090A					U98							
0092	00001.000	EA		0537137-0001	INSULATOR,PLATE,EIGHT LEAD DEVICE	013103-7717-156N						
0092A					XU38							
0093	00000.001	EA		0996069-0003	ADM,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,DUAL,960 CHARA,60HZ					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM0946076-0003					

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM0946076-0003		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0100	REF	EA		0946122-9901	SPECIFICATION,911 CRT DISPLAY TRML KIT							
0101	REF	EA		0946078-9901	LOGIC DIAGRAM,911 VDT CONTROLLER							
0102	REF	EA		0948592-9901	TEST PROCEDURE,911 UNIT,SPARES,SYSTEM							
0103	00001.000	FT		0410499-0006	INSULATION SLEEVING,TEFLON #22 NATURAL	QPL	-81349					
0104	00006.000	EA		0418730-0101	WASHER,NYLON							
0105	00001.000	EA		0946076-5003	AUTO INSERTION TAPE FDF 946076-0003							
0106	00001.200	FT		0535978-0058	WIRE ELEC.,SOLID,"KYHAR" INSUL #30 AWG							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,DUAL,960 CHARA,60HZ					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM0946076-0003					

PART NUMBER		QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA	0946077-0001	PWB, 713 VIDEO DISPLAY CONTROLLER			
0002	00001.000	EA	0972639-0001	NETWORK, SN75113N U2			
0003	00001.000	EA	0972189-0002	NETWORK SN75115N		-TI-SN75115N	
0003A				U8			
0004	00002.000	EA	0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB			
0005	00001.000	EA	0972894-0001	IC,ROM,1024 WORD BY 8-BIT			
0005A				U105			
0006	00001.000	EA	0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE		-TI-TMS6011NC	
0006A				U92			
0007	00001.000	EA	0996307-0001	IC,SN74S373,OCTAL D, FLIPFLOP	TI	-SN74S373	
0007A				U106			
0008	00003.000	EA	0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169		
0008A				U74,U75,U76			
0009	00002.000	EA	0996035-0002	IC,4 BIT COUNTER SN74393N		-SN74393N	
0009A				U58,U68			
0010	00001.000	EA	0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A		
0010A				U38			
0011	00001.000	EA	0972141-0057	NETWORK,RES. 4.7 K OHM 2 X 14 PIN DIP	BEC - 899-1-R-7K		
0011A				U114			

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ASSY, 911CTLR, SGLE, 960 CHARA, 60HZ

PART NUMBER		QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0012	00008.000	EA	0996306-0001	IC, STATIC RAM MEMORY	TI	-TMS 4033	
0012A				U138,U140,U142,U144,U146,U148,U150,U152			
0012B							
0013	00004.000	EA	0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N			
0013A				U67,U83,U135,U136			
0014	00003.000	EA	0972900-7139	NETWORK SN74LS139N	TI	-SN74LS139N	
0014A				U93,U103,U116			
0015	00004.000	EA	0972900-7400	NETWORK SN74LS00N	TI	-SN74LS00N	
0015A				U3,U70,U78,U115			
0016	00001.000	EA	0972556-0001	NETWORK SN74367N	TI-	-SN74367N	
0016A				U109			
0017	00004.000	EA	0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N	
0017A				U71,U72,U73,U86			
0018	00002.000	EA	0972900-7404	NETWORK SN74LS04N			
0018A				U39,U113			
0019	00003.000	EA	0972749-0001	NETWORK, SN74LS08N			
0019A				U20,U81,U97			
0020	00006.000	EA	0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N	
0020A				U43,U79,U89,U108,U110,U111			
0021	00001.000	EA	0972900-7138	NETWORK SN74LS138N	TI	-SN74LS138N	

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ASSY, 911CTLR, SGLE, 960 CHARA, 60HZ

PART NUMBER		QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0021A						U99	
0022	00004.000	EA	0972159-7251	NETWORK SN74251N	TI	-SN74251N	
0022A				U77,U82,U84,U95			
0023	00003.000	EA	0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N	
0023A				U29,U88,U90			
0024	00003.000	EA	0972815-0001	NETWORK-SN74LS85N			
0024A				U64,U65,U66			
0025	00002.000	EA	0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI	-SN74LS298N	
0025A				U87,U96			
0026	00002.000	EA	0972900-7402	NETWORK SN74LS02N			
0026A				U69,U112			
0027	00003.000	EA	0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI	-SN74LS273N	
0027A				U62,U100,U101			
0028	00001.000	EA	0972814-0001	NETWORK-SN74LS27N			
0028A				U48			
0029	00001.000	EA	0972900-7174	NETWORK SN74LS174N			
0029A				U5			
0030	00002.000	EA	0972900-7451	NETWORK SN74LS51N	TI	-SN74LS51N	
0030A				U40,U59			
0031	00001.000	EA	0972688-0001	NETWORK SN74LS164N			

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ASSY, 911CTLR, SGLE, 960 CHARA, 60HZ

PART NUMBER		QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0031A						U49	
0032	00001.000	EA	0972900-7410	NETWORK SN74LS10N			
0032A				U102			
0033	00001.000	EA	0801383-0001	NETWORK SN74LS151N			
0033A				U91			
0034	00001.000	EA	0972900-7153	NETWORK SN74LS153N	TI	-SN74LS153N	
0034A				U80			
0035	00001.000	EA	0972556-0002	NETWORK SN74368N			
0035A				U107			
0036	00001.000	EA	0972856-0001	NETWORK, SN74376N			
0036A				U50			
0037	00005.000	EA	0222222-7163	NETWORK SN74163N			
0037A				U41,U53,U60,U61,U63			
0039	00001.000	EA	0222222-7166	NETWORK SN74166N			
0039A				U104			
0040	00001.000	EA	0222222-7406	NETWORK SN7406N			
0040A				U1			
0043	00001.000	EA	0948554-0004	ROM,713 CRT,256X4,ROM DECODER 60/960			
0043A				U52			
0044	00001.000	EA	0948554-0005	ROM,713 CRT,256X4,SYNC DECODER 60/960			

DATE 07/17/79 LIST OF MATERIAL PAGE 4 of LM0946076-0004 AC

ASSY, 911CTLR, SGLE, 960 CHARA, 60HZ

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST of MATERIAL		PAGE 5 of		PART NUMBER LM0946076-0004		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0044A					U42							
0045	00001.000	EA		0948554-0001	ROM,713 CRT,256X8,CHARA DECODER DRIVE							
0045A					U51							
0046	00001.000	EA		0972499-0001	NETWORK,LM320T-5.0/MC7905CP,-5 VOLT	SEE - TI DRAWING						
0046A					VR1							
0049	00002.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 X 200 V	QPL -M39014/01-1379						
0049A					C3,C70							
0050	00002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10X 100V	QPL - CK068X104K						
0050A					C2,C4							
0051	00009.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,-.047 UF,+80%,-20%							
0051A					C48 THRU C56							
0052	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 X 10 VOLT	QPL -M39003/1-2263						
0052A					C34							
0053	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 X 20 VOLT	QPL -M39003/1-2301						
0053A					C33,C35							
0054	00002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093368-784-1R56						
0054A					U9,U153							
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 X .25 W CARBON FILM	R0H - R-25						
0062A					R9							
0063	00001.000	EA		0996395-0001	PHONE JACK,MINIATURE,3.5 MM	SG-802-6						
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,SGLE,960 CHARA,60HZ				
APP'D-MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0004				

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST of MATERIAL		PAGE 6 of		PART NUMBER LM0946076-0004		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0063A					J1							
0064	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220							
0064A					CR1							
0065	00001.000	EA		0972948-0001	TRANSISTOR, NPN,GEN.PURP.-SW TO-5	TI - 2N2219A						
0065A					Q1							
0066	00001.000	EA		0419253-0005	HEATSINK,TRANSISTOR	005820-204-C8						
0067	00001.000	EA		0530127-0001	PAD,MOUNTING,TO-18 4 LEAD, WHITE	013103- 7717-44N						
0068	00001.000	EA		0972854-0002	CONN 9PIN PC RECP	000779-207084-2						
0068A					J4							
0069	00001.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI -206514-1						
0070	00001.000	EA		0772696-0010	HEADER,3 PIN .300LG SGL ROW,STRIP OF 3	-J002364						
0070A					J3							
0071	00003.000	EA		2210188-0003	SOCKET,LOW PROFILE,DIP, 7 CONT, 16 PINS	003612-DIL816P-108						
0071A					KU41,KU42,KU52							
0072	00001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-DIL820P-108						
0072A					KU51							
0073	00001.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-DIL824P-108						
0073A					KU105							
0077	00001.000	EA		0946707-0001	STIFFENER,PWB,11 INCH							
0078	00001.000	EA		0946708-0001	INSULATOR,STIFFENER,PWB,11 INCH							
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,SGLE,960 CHARA,60HZ				
APP'D-MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0004				

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST of MATERIAL		PAGE 7 of		PART NUMBER LM0946076-0004		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0079	00001.000	EA		0944954-0001	INSULATOR, PWB, 14IN							
0080	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN							
0081	00006.000	EA		0972684-0002	SCREW,THD FRNG,HEX MSHR HD,2-56X1/4 LG							
0086	00002.000	EA		0972713-0001	PLUG, JUMPER, 1.C., 0.300 INCH							
0086A					P7 P11							
0087	00006.000	EA		0996864-0001	CONNECTOR,SOCKET PCB	022526-75060-007						
0088	00001.000	EA		2210188-0002	SOCKET,LOW PROFILE,DIP, 14 PINS	003612-DIL814P-108						
0088A					XU49							
0089	00001.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-DIL840P-108						
0089A					XU92							
0090	00001.000	EA		0972787-0003	NETWORK SN74LS367N							
0090A					U98							
0091	00000.600	FT		0457313-0006	WIRE 24 AWG SOLID,TEFLON,WHITE	QPL - MIL-W-16878/4						
0091A					R20 THRU R23							
0092	00001.000	EA		0537137-0001	INSULATOR,PLATE,EIGHT LEAD DEVICE	013103-7717-156N						
0092A					XU38							
0093	00000.001	EA		0996069-0003	ADH,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERFAL-917-6302						
0100	REF	EA		0946122-9901	SPECIFICATION,911 CRT DISPLAY TRML KIT							
0101	REF	EA		0946078-9901	LOGIC DIAGRAM,911 VDT CONTROLLER							
0102	REF	EA		0948592-9901	TEST PROCEDURE,911 UNIT, SPARES, SYSTEM							
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,SGLE,960 CHARA,60HZ				
APP'D-MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0004				

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST of MATERIAL		PAGE 8 of		PART NUMBER LM0946076-0004		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0103	00001.000	FT		0410499-0006	INSULATION SLEEVING,TEFLON #22 NATURAL	QPL -81349						
0104	00006.000	EA		0418730-0101	WASHER,NYLON							
0105	00001.000	EA		0946076-5004	AUTO INSERTION TAPE FDF 946076-0004							
0106	00001.200	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG							
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,SGLE,960 CHARA,60HZ				
APP'D-MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0004				

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0005		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0946077-0001	PWB, 713 VIDEO DISPLAY CONTROLLER						
0002	0001.000	EA		0972639-0001	NETWORK, SN75113N						
0002A					U2						
0003	0002.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N					
0003A					U8,U10						
0004	0002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0005	0002.000	EA		0972894-0001	IC,ROM,1024 WORD BY 8-BIT						
0005A					U35,U105						
0006	0002.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011NC					
0006A					U21,U92						
0007	0002.000	EA		0996307-0001	IC,SN74S373,OCTAL D, FLIPFLOP	TI -SN74S373					
0007A					U36,U106						
0008	0006.000	EA		0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169					
0008A					U44,U45,U46,U74,U75,U76						
0009	0002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74393N	-SN74393N					
0009A					U58,U68						
0010	0001.000	EA		0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A					
0010A					U38						
0011	0002.000	EA		0972141-0057	NETWORK,RES. 4.7 K OHM 2 \pm 14 PIN DIP	BEC - 899-1-R4.7K					
0011A					U12,U114						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,DUAL,1920CHAR,60HZ,GRAPH											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0005 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-0005		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0012	00032.000	EA		0996306-0001	IC,STATIC RAM MEMORY	TI -TMS 4033					
0012A					U117 THRU U132,						
0012B					U137 THRU U152						
0013	00008.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0013A					U32,U57,U67,U83,U133,U134,						
0013B					U135,U136						
0014	00005.000	EA		0972900-7139	NETWORK SN74LS139N	TI -SN74LS139N					
0014A					U4,U22,U93,U103,U116						
0015	00004.000	EA		0972900-7400	NETWORK SN74LS00M	TI -SN74LS00M					
0015A					U3,U70,U78,U115						
0016	00001.000	EA		0972556-0001	NETWORK SN74367N	TI- -SN74367N					
0016A					U109						
0017	00006.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N					
0017A					U13,U30,U71,U72,U73,U86						
0018	00002.000	EA		0972900-7404	NETWORK SN74LS04N						
0018A					U39,U113						
0019	00003.000	EA		0972749-0001	NETWORK, SN74LS08N						
0019A					U20,U81,U97						
0020	00010.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N					
0020A					U15,U17,U27,U37,U43,U75,U89						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,DUAL,1920CHAR,60HZ,GRAPH											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0005 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946076-0005		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0020B					U108,U110,U111						
0021	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N					
0021A					U28,U99						
0022	00008.000	EA		0972159-7251	NETWORK SN74251N	TI -SN74251N					
0022A					U25,U31,U33,U47,U77,U82,U84						
0022B					U95						
0023	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N					
0023A					U29,U88,U90						
0024	00006.000	EA		0972815-0001	NETWORK-SN74LS85N						
0024A					U54,U55,U56,U64,U65,U66						
0025	00004.000	EA		0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI -SN74LS298N					
0025A					U14,U26,U87,U96						
0026	00003.000	EA		0972900-7402	NETWORK SN74LS02N						
0026A					U11,U69,U112						
0027	00004.000	EA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273N					
0027A					U7,U62,U100,U101						
0028	00001.000	EA		0972814-0001	NETWORK-SN74LS27N						
0028A					U48						
0029	00002.000	EA		0972900-7174	NETWORK SN74LS174N						
0029A					U5,U6						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,DUAL,1920CHAR,60HZ,GRAPH											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0005 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946076-0005		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0030	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N					
0030A					U40,U59						
0031	00001.000	EA		0972688-0001	NETWORK SN74LS164N						
0031A					U49						
0032	00002.000	EA		0972900-7410	NETWORK SN74LS10N						
0032A					U19,U102						
0033	00002.000	EA		0801383-0001	NETWORK SN74LS151N						
0033A					U16,U91						
0034	00002.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N					
0034A					U18,U80						
0035	00001.000	EA		0972556-0002	NETWORK SN74368N						
0035A					U107						
0036	00001.000	EA		0972856-0001	NETWORK, SN74376N						
0036A					U50						
0037	00004.000	EA		0222222-7163	NETWORK SN74163N						
0037A					U53,U60,U61,U63						
0038	00001.000	EA		0222222-7162	NETWORK,SN74162N						
0038A					U41						
0039	00002.000	EA		0222222-7166	NETWORK SN74166N						
0039A					U34,U104						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,DUAL,1920CHAR,60HZ,GRAPH											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0005 AC											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946076-0005		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0040	00001.000	EA		022222-7406	NETWORK SN7406N					
0040A					U1					
0041	00002.000	EA		0972923-0001	IC,ROM,32 WORDS BY 8 BITS,SN7488N					
0041A					U24,U94					
0042	00002.000	EA		0972923-0002	IC,ROM,32 WORDS BY 8 BITS,SN7488N					
0042A					U23,U85					
0043	00001.000	EA		0948554-0002	ROM,713 CRT,256X4,ROM DECODER 60/1920					
0043A					U52					
0044	00001.000	EA		0948554-0003	ROM,713 CRT,256X4,SYNC DECODER 60/1920					
0044A					U42					
0045	00001.000	EA		0948554-0001	ROM,713 CRT,256X8,CHARA DECODER DRIVE					
0045A					U51					
0046	00001.000	EA		0972499-0001	NETWORK,LM320T-5.0/MC7905CP,-5 VOLT	SEE	- TI DRAWING			
0046A					VR1					
0049	00004.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 % 200 V	QPL	-M39014/01-1379			
0049A					C3,C6,C70,C71					
0050	00004.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	QPL	- CK06BX104K			
0050A					C2,C4,C5,C7					
0051	00019.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%, -20%					
0051A					C39 THRU C56 C68					
DRAFTSMAN					DATE	CVD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
										ASSY,911CTLR,DUAL,1920CHAR,60HZ,GRAPH
APPROV. MFG					DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
										LM0946076-0005 AC

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946076-0005		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0052	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 % 10 VOLT	QPL	-M39003/1-2263			
0052A					C34					
0053	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL	-M39003/1-2301			
0053A					C33,C35					
0054	00002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093360-784-1P56				
0054A					U9,U153					
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	RDH	- R-25			
0062A					R9					
0063	00002.000	EA		0996395-0001	PHONE JACK,MINIATURE,3.5 MM	SG-802-6				
0063A					J1,J2					
0064	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220					
0064A					CR1					
0065	00002.000	EA		0972948-0001	TRANSISTOR, NPN,GEN.PURP.-SW TO-5	TI	- 2N2215A			
0065A					Q1 Q2					
0066	00002.000	EA		0419253-0005	HEATSINK,TRANSISTOR	005820-204-CB				
0067	00002.000	EA		0530127-0001	PAD,MOUNTING,TO-18 4 LEAD, WHITE	013103- 7717-44M				
0068	00002.000	EA		0972854-0002	CONN 9PIN PC RECP	000779-207084-2				
0068A					J4,J5					
0069	00002.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI	-206514-1			
0070	00001.000	EA		0772696-0010	HEADER,3 PIN .300LG SGL ROW,STRIP OF 3	-0002364				
DRAFTSMAN					DATE	CVD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
										ASSY,911CTLR,DUAL,1920CHAR,60HZ,GRAPH
APPROV. MFG					DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
										LM0946076-0005 AC

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0946076-0005		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0070A					J3					
0071	00007.000	EA		2210188-0003	SOCKET,LOW PROFILE,DIP, 7 CONT, 16 PINS	003612-DIL816P-108				
0071A					XU23,XU24,XU41,XU42,XU52, XU85,XU94					
0072	00001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-DIL820P-108				
0072A					XU51					
0073	00002.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-DIL824P-108				
0073A					XU35,XU105					
0077	00001.000	EA		0946707-0001	STIFFENER,PWB,11 INCH					
0078	00001.000	EA		0946708-0001	INSULATOR,STIFFENER,PWB,11 INCH					
0079	00001.000	EA		0944954-0001	INSULATOR, PWB, 14IN					
0080	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN					
0081	00006.000	EA		0972684-0002	SCREW,THD FRMG,HEX WSHR HD,2-56X1/4 LG					
0086	00004.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH					
0086A					P6 P8 P9 P10					
0087	00011.000	EA		0996864-0001	CONNECTOR,SOCKET PCB	022526-75060-007				
0088	00001.000	EA		2210188-0002	SOCKET,LOW PROFILE,DIP, 14 PINS	003612-DIL814P-108				
0088A					XU49					
0089	00002.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-DIL840P-108				
0089A					XU21 XU92					
DRAFTSMAN					DATE	CVD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
										ASSY,911CTLR,DUAL,1920CHAR,60HZ,GRAPH
APPROV. MFG					DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
										LM0946076-0005 AC

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM0946076-0005		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0090	00001.000	EA		0972787-0003	NETWORK SN74LS367N					
0090A					U98					
0092	00001.000	EA		0537137-0001	INSULATOR,PLATE,EIGHT LEAD DEVICE	013103-7717-156N				
0092A					XU38					
0093	00000.001	EA		0996069-0003	ADH,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302				
0100	REF	EA		0946122-9901	SPECIFICATION,911 CRT DISPLAY TRML KIT					
0101	REF	EA		0946078-9901	LOGIC DIAGRAM,911 VDT CONTROLLER					
0102	REF	EA		0948592-9901	TEST PROCEDURE,911 UNIT,SPARES,SYSTEM					
0103	00001.000	FT		0410499-0006	INSULATION SLEEVING,TEFLON #22 NATURAL	QPL	-81349			
0104	00006.000	EA		0418730-0101	WASHER,NYLON					
0105	00001.000	EA		0946076-5005	AUTO INSERTION TAPE FOR 946076-0005					
0106	00001.200	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG					
DRAFTSMAN					DATE	CVD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
										ASSY,911CTLR,DUAL,1920CHAR,60HZ,GRAPH
APPROV. MFG					DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
										LM0946076-0005 AC

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79	LIST OF MATERIAL	PAGE 1 of	PART NUMBER LM0946076-0006	REV AC
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		0946077-0001	PWB, 713 VIDEO DISPLAY CONTROLLER	
0002	00001.000	EA		0972639-0001	NETWORK, SN75113N	
0002A					U2	
0003	00001.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N
0003A					U8	
0004	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB	
0005	00001.000	EA		0972894-0001	IC,ROM,1024 WORD BY 8-BIT	
0005A					U105	
0006	00001.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011NC
0006A					U92	
0007	00001.000	EA		0996307-0001	IC,SN745373,OCTAL D, FLIPFLOP	TI -SN745373
0007A					U106	
0008	00003.000	EA		0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169
0008A					U74,U75,U76	
0009	00002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74393N	-SN74393N
0009A					U58,U68	
0010	00001.000	EA		0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A
0010A					U38	
0011	00001.000	EA		0972141-0057	NETWORK,RES. 4.7 K OHM 2 x 14 PIN DIP	BEC - 899-1-R4.7K
0011A					U114	
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR,60HZ,GRAPH						
APPRO MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0006 AC						

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79	LIST OF MATERIAL	PAGE 2 of	PART NUMBER LM0946076-0006	REV AC
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0012	00016.000	EA		0996306-0001	IC,STATIC RAM MEMORY	TI -TMS 4033
0012A					U137 THRU U152	
0013	00004.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N	
0013A					U67,U83,U135,U136	
0014	00003.000	EA		0972900-7139	NETWOPK SN74LS139N	TI -SN74LS139N
0014A					U93,U103,U116	
0015	00004.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N
0015A					U3,U70,U78,U115	
0016	00001.000	EA		0972556-0001	NETWORK SN74367N	TI- -SN74367N
0016A					U109	
0017	00004.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N
0017A					U71,U72,U73,U86	
0018	00002.000	EA		0972900-7404	NETWORK SN74LS04N	
0018A					U39,U113	
0019	00003.000	EA		0972749-0001	NETWORK, SN74LS08N	
0019A					U20,U81,U97	
0020	00006.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N
0020A					U43,U79,U89,U108,U110,U111	
0021	00001.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N
0021A					U99	
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR,60HZ,GRAPH						
APPRO MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0006 AC						

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79	LIST OF MATERIAL	PAGE 3 of	PART NUMBER LM0946076-0006	REV AC
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0022	00004.000	EA		0972159-7251	NETWORK SN74251N	TI -SN74251N
0022A					U77,U82,U84,U95	
0023	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N
0023A					U29,U88,U90	
0024	00003.000	EA		0972815-0001	NETWORK-SN74LS85N	
0024A					U64,U65,U66	
0025	00002.000	EA		0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI -SN74LS298N
0025A					U87,U96	
0026	00002.000	EA		0972900-7402	NETWORK SN74LS02N	
0026A					U69,U112	
0027	00003.000	EA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273N
0027A					U62,U100,U101	
0028	00001.000	EA		0972814-0001	NETWORK-SN74LS27N	
0028A					U48	
0029	00001.000	EA		0972900-7174	NETWORK SN74LS174N	
0029A					U5	
0030	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N
0030A					U40,U59	
0031	00001.000	EA		0972688-0001	NETWORK SN74LS164N	
0031A					U49	
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR,60HZ,GRAPH						
APPRO MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0006 AC						

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79	LIST OF MATERIAL	PAGE 4 of	PART NUMBER LM0946076-0006	REV AC
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0032	00001.000	EA		0972900-7410	NETWORK SN74LS10N	
0032A					U102	
0033	00001.000	EA		0801383-0001	NETWORK SN74LS151N	
0033A					U91	
0034	00001.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N
0034A					U80	
0035	00001.000	EA		0972556-0002	NETWORK SN74368N	
0035A					U107	
0036	00001.000	EA		0972856-0001	NETWORK, SN74376N	
0036A					U50	
0037	00004.000	EA		0222222-7163	NETWORK SN74163N	
0037A					U53,U60,U61,U63	
0038	00001.000	EA		0222222-7162	NETWORK,SN74162N	
0038A					U41	
0039	00001.000	EA		0222222-7166	NETWORK SN74166N	
0039A					U104	
0040	00001.000	EA		0222222-7406	NETWORK SN7406N	
0040A					U1	
0041	00001.000	EA		0972923-0001	IC,ROM,32 WORDS BY 8 BITS,SN7488N	
0041A					U94	
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR,60HZ,GRAPH						
APPRO MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0006 AC						

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946076-0006		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0042	00001.000	EA		0972923-0002	IC,ROM,32 WORDS BY 8 BITS,SN7488N						
0042A					U85						
0043	00001.000	EA		0948554-0002	ROM,713 CRT,256X4,ROM DECODER 60/1920						
0043A					U52						
0044	00001.000	EA		0948554-0003	ROM,713 CRT,256X4,SYNC DECODER 60/1920						
0044A					U42						
0045	00001.000	EA		0948554-0001	ROM,713 CRT,256X8,CHARA DECODER DRIVE						
0045A					U51						
0046	00001.000	EA		0972499-0001	NETWORK,LM320T-5.0/MC7905CP,-5 VOLT	SEE	- TI DRAWING				
0046A					VR1						
0049	00002.000	EA		0972923-0379	CAP FIX CERAMIC 100 PF 10 X 200 V	QPL	-H39014/01-1379				
0049A					C3,C70						
0050	00002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10X 100V	QPL	- CK068X104K				
0050A					C2,C4						
0051	00009.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C48 THRU C56						
0052	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 X 10 VOLT	QPL	-H39003/1-2263				
0052A					C34						
0053	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 X 20 VOLT	QPL	-H39003/1-2301				
0053A					C33,C35						
DRAFTSMAN DATE Ckd DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR,60HZ,GRAPH APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0006 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946076-0006		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0054	00002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093368-784-1R56					
0054A					U9,U153						
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 X .25 W CARBON FILM	ROH	- R-25				
0062A					R9						
0063	00001.000	EA		0996395-0001	PHONE JACK,MINIATURE,3.5 MM	SG-802-6					
0063A					J1						
0064	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0064A					CR1						
0065	00001.000	EA		0972948-0001	TRANSISTOR, NPN,GEN.PURP.SW TD-5	TI	- 2N2219A				
0065A					Q1						
0066	00001.000	EA		0419253-0005	HEATSINK,TRANSISTOR	005820-204-CB					
0067	00001.000	EA		0530127-0001	PAD,MOUNTING,TD-18 4 LEAD, WHITE	013103-7717-44N					
0068	00001.000	EA		0972854-0002	CONN 9PIN PC RECP	000779-207084-2					
0068A					J4						
0069	00001.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI	-206514-1				
0070	00001.000	EA		0772696-0010	HEADER,3 PIN .300LG SGL ROW,STRIP OF 3	-0002364					
0070A					J3						
0071	00005.000	EA		2210188-0003	SOCKET,LOW PROFILE,DIP, 7 CONT, 16 PINS	003612-D1L816P-108					
0071A					XU41,XU42,XU52,XU85,XU94						
0072	00001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1L820P-108					
DRAFTSMAN DATE Ckd DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR,60HZ,GRAPH APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0006 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0946076-0006		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0072A					XU51						
0073	00001.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-D1L824P-108					
0073A					XU105						
0077	00001.000	EA		0946707-0001	STIFFENER,PWB,11 INCH						
0078	00001.000	EA		0946708-0001	INSULATOR,STIFFENER,PWB,11 INCH						
0079	00001.000	EA		0944954-0001	INSULATOR, PWB, 14IN						
0080	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN						
0081	00006.000	EA		0972684-0002	SCREW,THD FRMG,HEX WSHR HD,2-56X1/4 LG						
0086	00003.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH						
0086A					P8 P9 P10						
0087	00008.000	EA		0996864-0001	CONNECTOR,SOCKET PCB	022526-75060-007					
0088	00001.000	EA		2210188-0002	SOCKET,LOW PROFILE,DIP, 14 PINS	003612-D1L814P-108					
0088A					XU49						
0089	00001.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-D1L840P-108					
0089A					XU92						
0090	00001.000	EA		0972787-0003	NETWORK SN74LS367N						
0090A					U98						
0091	00006.000	FT		2210083-0003	WIRE,ELEC,COND U/L STYLE 1213,24 AWG	090484-WTE24A					
0091A					R20 THRU R23						
0092	00001.000	EA		0537137-0001	INSULATOR,PLATE,EIGHT LEAD DEVICE	013103-7717-156N					
DRAFTSMAN DATE Ckd DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR,60HZ,GRAPH APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0006 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM0946076-0006		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0092A					XU38						
0093	00000.001	EA		0996069-0003	ADH,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0100	REF	EA		0946122-9901	SPECIFICATION,911 CRT DISPLAY TRML KIT						
0101	REF	EA		0946078-9901	LOGIC DIAGRAM,911 VDT CONTROLLER						
0102	REF	EA		0948592-9901	TEST PROCEDURE,911 UNIT,SPARES,SYSTEM						
0103	00001.000	FT		0410499-0006	INSULATION SLEEVING,TEFLON #22 NATURAL	QPL	-81349				
0104	00006.000	EA		0418730-0101	WASHER,NYLON						
0105	00001.000	EA		0946076-5006	AUTO INSERTION TAPE FOR 946076-0006						
0106	00001.200	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG						
DRAFTSMAN DATE Ckd DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,SINGLE,1920 CHAR,60HZ,GRAPH APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0006 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0007		REV AC
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	0001.000	EA		0946077-0001	PWB, 713 VIDEO DISPLAY CONTROLLER					
0002	0001.000	EA		0972639-0001	NETWORK, SN75113N					
0002A					U2					
0003	0002.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N				
0003A					U8,U10					
0004	0002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB					
0005	0002.000	EA		0972894-0001	IC,RDM,1024 WORD BY 8-BIT					
0005A					U35,U105					
0006	0002.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011NC				
0006A					U21,U92					
0007	0002.000	EA		0996307-0001	IC,SN74S373,OCTAL D, FLIPFLOP	TI -SN74S373				
0007A					U36,U106					
0008	0006.000	EA		0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169				
0008A					U44,U45,U46,U74,U75,U76					
0009	0002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74393N	-SN74393N				
0009A					U58,U68					
0010	0001.000	EA		0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A				
0010A					U38					
0011	0002.000	EA		0972141-0057	NETWORK,RES. 4.7 K OHM 2 X 14 PIN DIP	BEC - 899-1-R-4.7K				
0011A					U12,U114					
DRAFTSMAN: DATE: CKD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY,911CTLR,DUAL,1920 CHAR 50HZ										
APPROVED: DATE: APPO PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-0007 AC										

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-0007		REV AC
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0012	00032.000	EA		0996306-0001	IC,STATIC RAM MEMORY	TI -TMS 4033				
0012A					U117 THRU U132,					
0012B					U137 THRU U152					
0013	00008.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N					
0013A					U32,U57,U67,U83,U133,U134,					
0013B					U135,U136					
0014	00005.000	EA		0972900-7139	NETWRK SN74LS139N	TI -SN74LS139N				
0014A					U4,U22,U93,U103,U116					
0015	00004.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N				
0015A					U3,U70,U78,U115					
0016	00001.000	EA		0972556-0001	NETWORK SN74367N	TI- -SN74367N				
0016A					U109					
0017	00006.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N				
0017A					U13,U30,U71,U72,U73,U86					
0018	00002.000	EA		0972900-7404	NETWORK SN74LS04N					
0018A					U39,U113					
0019	00003.000	EA		0972749-0001	NETWORK, SN74LS08N					
0019A					U20,U81,U97					
0020	00010.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N				
0020A					U15,U17,U27,U37,U43,U79,U89					
DRAFTSMAN: DATE: CKD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY,911CTLR,DUAL,1920 CHAR 50HZ										
APPROVED: DATE: APPO PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-0007 AC										

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946076-0007		REV AC
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0020B					U108,U110,U111					
0021	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N				
0021A					U28,U99					
0022	00008.000	EA		0972159-7251	NETWRK SN74251N	TI -SN74251N				
0022A					U25,U31,U33,U47,U77,U82,U84					
0022B					U95					
0023	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N				
0023A					U29,U88,U90					
0024	00006.000	EA		0972815-0001	NETWORK-SN74LS85N					
0024A					U54,U55,U56,U64,U65,U66					
0025	00004.000	EA		0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXK	TI -SN74LS298N				
0025A					U14,U26,U87,U96					
0026	00003.000	EA		0972900-7402	NETWORK SN74LS02N					
0026A					U11,U69,U112					
0027	00004.000	EA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273N				
0027A					U7,U62,U100,U101					
0028	00001.000	EA		0972814-0001	NETWORK-SN74LS27N					
0028A					U48					
0029	00002.000	EA		0972900-7174	NETWORK SN74LS174N					
0029A					U5,U6					
DRAFTSMAN: DATE: CKD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY,911CTLR,DUAL,1920 CHAR 50HZ										
APPROVED: DATE: APPO PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-0007 AC										

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946076-0007		REV AC
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0030	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N				
0030A					U40,U59					
0031	00001.000	EA		0972688-0001	NETWORK SN74LS164N					
0031A					U49					
0032	00002.000	EA		0972900-7410	NETWORK SN74LS10N					
0032A					U19,U102					
0033	00002.000	EA		0801383-0001	NETWORK SN74LS151N					
0033A					U16,U91					
0034	00002.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N				
0034A					U18,U80					
0035	00001.000	EA		0972556-0002	NETWORK SN74368N					
0035A					U107					
0036	00001.000	EA		0972856-0001	NETWORK, SN74376N					
0036A					U50					
0037	00004.000	EA		0222222-7163	NETWORK SN74163N					
0037A					U53,U60,U61,U63					
0038	00001.000	EA		0222222-7162	NETWORK,SN74162N					
0038A					U41					
0039	00002.000	EA		0222222-7166	NETWORK SN74166N					
0039A					U34,U104					
DRAFTSMAN: DATE: CKD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY,911CTLR,DUAL,1920 CHAR 50HZ										
APPROVED: DATE: APPO PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-0007 AC										

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 07/17/79		PAGE 5 of		PART NUMBER LM0946076-0007		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0040	00001.000	EA		022222-7406	NETWORK SN7406N						
0040A					U1						
0043	00001.000	EA		0948554-0006	ROM, 713 CRT, 256X4, ROM DECODER 50/1920						
0043A					U52						
0044	00001.000	EA		0948554-0007	ROM, 713 CRT, 256X4, SYNC DECODER 50/1920						
0044A					U42						
0045	00001.000	EA		0948554-0001	ROM, 713 CRT, 256X8, CHARA DECODER DRIVE						
0045A					U51						
0046	00001.000	EA		0972499-0001	NETWORK, LM320T-5.0/MC7905CP, -5 VOLT	SEE	- TI DRAWING				
0046A					VR1						
0049	00004.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 % 200 V	QPL	-439014/01-1379				
0049A					C3, C6, C70, C71						
0050	00004.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	QPL	- CK068X104K				
0050A					C2, C4, C5, C7						
0051	00019.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0051A					C39 THRU C56 C68						
0052	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 % 10 VOLT	QPL	-M35003/1-2263				
0052A					C34						
0053	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL	-M39003/1-2301				
0053A					C33, C35						
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							ASSY, 911CTLR, DUAL, 1920 CHAR 50HZ				
APP'D MGR		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV	
								LM0946076-0007		AC	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 07/17/79		PAGE 6 of		PART NUMBER LM0946076-0007		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0054	00002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093368-784-1R56					
0054A					U9, U153						
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0062A					R9						
0063	00002.000	EA		0996395-0001	PHONE JACK, MINIATURE, 3.5 MM	SG-802-6					
0063A					J1, J2						
0064	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0064A					CR1						
0065	00002.000	EA		0972948-0001	TRANSISTOR, NPN, GEN. PURP. SW TO-5	TI - 2N2219A					
0065A					Q1, Q2						
0066	00002.000	EA		0419253-0005	HEATSINK, TRANSISTOR	005820-204-CB					
0067	00002.000	EA		0530127-0001	PAD, MOUNTING, TO-18 4 LEAD, WHITE	013103- 7717-44N					
0068	00002.000	EA		0972854-0002	CONN 9PIN PC RECP	000779-207084-2					
0068A					J4, J5						
0069	00002.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI -206514-1					
0070	00001.000	EA		0772696-0010	HEADER, 3 PIN .300LG SGL ROW, STRIP OF 3	-0002364					
0070A					J3						
0071	00007.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 7 CONT, 16 PINS	003612-D1L816P-108					
0071A					XU23, XU24, XU41, XU42, XU52,						
0071B					XU85, XU94						
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							ASSY, 911CTLR, DUAL, 1920 CHAR 50HZ				
APP'D MGR		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV	
								LM0946076-0007		AC	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 07/17/79		PAGE 7 of		PART NUMBER LM0946076-0007		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0072	00001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1L820P-108					
0072A					XU51						
0073	00002.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-D1L824P-108					
0073A					U35, U105						
0077	00001.000	EA		0946707-0001	STIFFENER, PMB, 11 INCH						
0078	00001.000	EA		0946708-0001	INSULATOR, STIFFENER, PMB, 11 INCH						
0079	00001.000	EA		0944954-0001	INSULATOR, PMB, 14 IN						
0080	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PMB, 14 IN						
0081	00006.000	EA		0972684-0002	SCREW, THD FRMG, HEX WSHR HD, 2-56X1/4 LG						
0086	00003.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH						
0086A					P6 P8 P10						
0087	00011.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75060-007					
0088	00001.000	EA		2210188-0002	SOCKET, LOW PROFILE, DIP, 14 PINS	003612-D1L814P-108					
0088A					XU49						
0089	00002.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-D1L840P-108					
0089A					XU21 XU92						
0090	00001.000	EA		0972787-0003	NETWORK SN74LS367N						
0090A					U98						
0092	00001.000	EA		0537137-0001	INSULATOR, PLATE, EIGHT LEAD DEVICE	013103-7717-156N					
0092A					XU38						
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							ASSY, 911CTLR, DUAL, 1920 CHAR 50HZ				
APP'D MGR		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV	
								LM0946076-0007		AC	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 07/17/79		PAGE 8 of		PART NUMBER LM0946076-0007		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0093	00000.001	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0100	REF	EA		0946122-9901	SPECIFICATION, 911 CRT DISPLAY TRML KIT						
0101	REF	EA		0946078-9901	LOGIC DIAGRAM, 911 VDT CONTROLLER						
0102	REF	EA		0948592-9901	TEST PROCEDURE, 911 UNIT, SPARES, SYSTEM						
0103	00001.000	FT		0410499-0006	INSULATION SLEEVING, TEFLON #22 NATURAL	QPL -81349					
0104	00006.000	EA		0418730-0101	WASHER, NYLON						
0105	00001.000	EA		0946076-5007	AUTO INSERTION TAPE FOR 946076-0007						
0106	00001.200	FT		0535978-0058	WIRE ELEC., SOLID, "KYNAR" INSUL #30 AWG						
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							ASSY, 911CTLR, DUAL, 1920 CHAR 50HZ				
APP'D MGR		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER		REV	
								LM0946076-0007		AC	

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0008		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946077-0001	PMB, 713 VIDEO DISPLAY CONTROLLER							
0002	00001.000	EA		0972639-0001	NETWORK, SN75113N							
0002A					U2							
0003	00001.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N						
0003A					U8							
0004	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PMB							
0005	00001.000	EA		0972894-0001	IC,ROM,1024 WORD BY 8-BIT							
0005A					U105							
0006	00001.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011MC						
0006A					U92							
0007	00001.000	EA		0996307-0001	IC,SN74S373,OCTAL D, FLIPFLOP	TI -SN74S373						
0007A					U106							
0008	00003.000	EA		0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169						
0008A					U74,U75,U76							
0009	00002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74393N	-SN74393N						
0009A					U58,U68							
0010	00001.000	EA		0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A						
0010A					U38							
0011	00001.000	EA		0972141-0057	NETWORK,RES. 4.7 K OHM 2 % 14 PIN DIP	BEC - 899-1-K4.7K						
0011A					U114							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,SINGLE,1920 CHAR,50HZ					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0008		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-0008		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0012	00016.000	EA		0996306-0001	IC,STATIC RAM MEMORY	TI -TMS 4033						
0012A					U137 THRU U152							
0013	00004.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N							
0013A					U67,U83,U135,U136							
0014	00003.000	EA		0972900-7139	NETWORK SN74LS139N	TI -SN74LS139N						
0014A					U93,U103,U116							
0015	00004.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N						
0015A					U3,U70,U78,U115							
0016	00001.000	EA		0972556-0001	NETWORK SN74367N	TI- -SN74367N						
0016A					U109							
0017	00004.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N						
0017A					U71,U72,U73,U86							
0018	00002.000	EA		0972900-7404	NETWORK SN74LS04N							
0018A					U39,U113							
0019	00003.000	EA		0972749-0001	NETWORK, SN74LS08N							
0019A					U20,U81,U97							
0020	00006.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N						
0020A					U43,U79,U89,U108,U110,U111							
0021	00001.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N						
0021A					U99							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,SINGLE,1920 CHAR,50HZ					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0008		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946076-0008		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0022	00004.000	EA		0972159-7251	NETWORK SN74251N	TI -SN74251N						
0022A					U77,U82,U84,U95							
0023	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N						
0023A					U29,U88,U90							
0024	00003.000	EA		0972815-0001	NETWORK-SN74LS85N							
0024A					U64,U65,U66							
0025	00002.000	EA		0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI -SN74LS298N						
0025A					U87,U96							
0026	00002.000	EA		0972900-7402	NETWORK SN74LS02N							
0026A					U69,U112							
0027	00003.000	EA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273N						
0027A					U62,U100,U101							
0028	00001.000	EA		0972814-0001	NETWORK-SN74LS27N							
0028A					U48							
0029	00001.000	EA		0972900-7174	NETWORK SN74LS174N							
0029A					U5							
0030	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N						
0030A					U40,U59							
0031	00001.000	EA		0972688-0001	NETWORK SN74LS164N							
0031A					U49							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,SINGLE,1920 CHAR,50HZ					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0008		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946076-0008		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0032	00001.000	EA		0972900-7410	NETWORK SN74LS10N							
0032A					U102							
0033	00001.000	EA		0801383-0001	NETWORK SN74LS151N							
0033A					U91							
0034	00001.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N						
0034A					U80							
0035	00001.000	EA		0972556-0002	NETWORK SN74368N							
0035A					U107							
0036	00001.000	EA		0972856-0001	NETWORK, SN74376N							
0036A					U50							
0037	00004.000	EA		0222222-7163	NETWORK SN74163N							
0037A					U53,U60,U61,U63							
0038	00001.000	EA		0222222-7162	NETWORK,SN74162N							
0038A					U41							
0039	00001.000	EA		0222222-7166	NETWORK SN74166N							
0039A					U104							
0040	00001.000	EA		0222222-7406	NETWORK SN7406N							
0040A					U1							
0043	00001.000	EA		0948554-0006	ROM,713 CRT,256X4,ROM DECODER 50/1920							
0043A					U52							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,SINGLE,1920 CHAR,50HZ					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0008		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946076-0008		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0044	0001.000	EA		0948554-0007	ROM, 713 CRT, 256X4, SYNC DECODER 50/1920						
0044A					U42						
0045	0001.000	EA		0948554-0001	ROM, 713 CRT, 256X8, CHARA DECODER DRIVE						
0045A					U51						
0046	0001.000	EA		0972499-0001	NETWORK, LM320T-5.0/MC7905CP, -5 VOLT	SEE - TI DRAWING					
0046A					VR1						
0049	0002.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 % 200 V	QPL -M39014/01-1379					
0049A					C3, C70						
0050	0002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	QPL - CK068X104K					
0050A					C2, C4						
0051	0009.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0051A					C48 THRU C56						
0052	0001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 % 10 VOLT	QPL -M39003/1-2263					
0052A					C34						
0053	0002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL -M39003/1-2301					
0053A					C33, C35						
0054	0002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093368-784-1R56					
0054A					U9, U153						
0062	0001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	RDH - R-25					
0062A					R9						
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY, 911CTLR, SINGLE, 1920 CHAR, 50HZ											
APPD. MFG DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0946076-0008 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946076-0008		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0063	0001.000	EA		0996395-0001	PHONE JACK, MINIATURE, 3.5 MM	SG-802-6					
0063A					J1						
0064	0001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0064A					CR1						
0065	0001.000	EA		0972948-0001	TRANSISTOR, NPN, GEN. PUFF. SW TO-5	TI - 2N2219A					
0065A					Q1						
0066	0001.000	EA		0419253-0005	HEATSINK, TRANSISTOR	005820-204-CB					
0067	0001.000	EA		0530127-0001	PAD, MOUNTING, TO-18 & LEAD, WHITE	013103-7717-44N					
0068	0001.000	EA		0972854-0002	CONN 9PIN PC RECP	000779-207084-2					
0068A					J4						
0069	0001.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI - 206514-1					
0070	0001.000	EA		0772696-0010	HEADER, 3 PIN .300LG SGL ROW, STRIP OF 3	-0002364					
0070A					J3						
0071	0005.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 7 CONT, 16 PINS	003612-D1L816P-108					
0071A					XU41, XU42, XU52, XU85, XU94						
0072	0001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1L820P-108					
0072A					XU51						
0073	0001.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-D1L824P-108					
0073A					XU105						
0077	0001.000	EA		0946707-0001	STIFFENER, PWB, 11 INCH						
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY, 911CTLR, SINGLE, 1920 CHAR, 50HZ											
APPD. MFG DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0946076-0008 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0946076-0008		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0078	0001.000	EA		0946708-0001	INSULATOR, STIFFENER, PWB, 11 INCH						
0079	0001.000	EA		0944954-0001	INSULATOR, PWB, 14IN						
0080	0001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN						
0081	0006.000	EA		0972684-0002	SCREW, THD FRMG, HEX WSHR HD, 2-56X1/4 LG						
0086	0002.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH						
0086A					P8 P10						
0087	0008.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75060-007					
0088	0001.000	EA		2210188-0002	SOCKET, LOW PROFILE, DIP, 14 PINS	003612-D1L814P-108					
0088A					XU49						
0089	0001.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-D1L840P-108					
0089A					XU92						
0090	0001.000	EA		0972787-0003	NETWORK SN74LS367N						
0090A					U98						
0091	0000.600	FT		2210083-0003	WIRE, ELEC, COND U/L STYLE 1213, 24 AWG	090484-WTE24A					
0091A					R20 THRU R23						
0092	0001.000	EA		0537137-0001	INSULATOR, PLATE, EIGHT LEAD DEVICE	013103-7717-156N					
0092A					XU38						
0093	0000.001	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0100	REF	EA		0946122-9901	SPECIFICATION, 911 CRT DISPLAY TRML KIT						
0101	REF	EA		0946078-9901	LOGIC DIAGRAM, 911 VDT CONTROLLER						
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY, 911CTLR, SINGLE, 1920 CHAR, 50HZ											
APPD. MFG DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0946076-0008 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM0946076-0008		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0102	REF	EA		0946592-9901	TEST PROCEDURE, 911 UNIT, SPARES, SYSTEM						
0103	0001.000	FT		0410499-0006	INSULATION SLEEVING, TEFLON #22 NATURAL	QPL -81349					
0104	0006.000	EA		0418730-0101	WASHER, NYLON						
0105	0001.000	EA		0946076-5008	AUTO INSERTION TAPE FOR 946076-0008						
0106	0001.200	FT		0535978-0058	WIRE ELEC., SOLID, "KYNAR" INSUL #30 AWG						
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY, 911CTLR, SINGLE, 1920 CHAR, 50HZ											
APPD. MFG DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0946076-0008 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0009		REV AC		
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946077-0001	PWB, 713 VIDEO DISPLAY CONTROLLER							
0002	00001.000	EA		0972639-0001	NETWORK, SN75113N							
0002A					U2							
0003	00002.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N						
0003A					U8,U10							
0004	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB							
0005	00002.000	EA		0972894-0001	IC,ROM,1024 WORD BY 8-BIT							
0005A					U35,U105							
0006	00002.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011NC						
0006A					U21,U92							
0007	00002.000	EA		0996307-0001	IC,SN74S373,OCAL D, FLIPFLOP	TI		-SN74S373				
0007A					U36,U106							
0008	00006.000	EA		0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169						
0008A					U44,U45,U46,U74,U75,U76							
0009	00002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74393N	-SN74393N						
0009A					U58,U68							
0010	00001.000	EA		0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A						
0010A					U38							
0011	00002.000	EA		0972141-0057	NETWORK,RES. 4.7 K OHM 2 x 14 PIN DIP	BEC		- 899-1-R4.7K				
0011A					U12,U114							
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,FR,DUAL,960 CHAR					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0009	REV AC			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-0009		REV AC		
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0012	00016.000	EA		0996306-0001	IC,STATIC RAM MEMORY	TI -TMS 4033						
0012A					U118,U120,U122,U124,U126,							
0012B					U128,U130,U132,U138,U140,							
0012C					U142,U144,U146,U148,U150							
0012D					U152							
0013	00008.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N							
0013A					U32,U57,U67,U83,U133,U134,							
0013B					U135,U136							
0014	00005.000	EA		0972900-7139	NETWORK SN74LS139N	TI		-SN74LS139N				
0014A					U4,U22,U93,U103,U116							
0015	00004.000	EA		0972900-7400	NETWORK SN74LS00N	TI		-SN74LS00N				
0015A					U3,U70,U78,U115							
0016	00001.000	EA		0972556-0001	NETWORK SN74367N	TI-		-SN74367N				
0016A					U109							
0017	00006.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI		-SN74LS259N				
0017A					U13,U30,U71,U72,U73,U86							
0018	00002.000	EA		0972900-7404	NETWORK SN74LS04N							
0018A					U39,U113							
0019	00003.000	EA		0972749-0001	NETWORK, SN74LS08N							
0019A					U20,U81,U97							
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,FR,DUAL,960 CHAR					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0009	REV AC			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946076-0009		REV AC		
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0020	00010.000	EA		0972900-7109	NETWORK SN74LS109N	TI		-SN74LS109N				
0020A					U15,U17,U27,U37,U43,U79,U89							
0020B					U108,U110,U111							
0021	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI		-SN74LS138N				
0021A					U28,U99							
0022	00008.000	EA		0972159-7251	NETWORK SN74251N	TI		-SN74251N				
0022A					U25,U31,U33,U47,U77,U82,U84							
0022B					U95							
0023	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI		-SN74LS32N				
0023A					U29,U88,U90							
0024	00006.000	EA		0972815-0001	NETWORK-SN74LS85N							
0024A					U54,U55,U56,U64,U65,U66							
0025	00004.000	EA		0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI		-SN74LS298N				
0025A					U14,U26,U87,U96							
0026	00003.000	EA		0972900-7402	NETWORK SN74LS02N							
0026A					U11,U69,U112							
0027	00004.000	EA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI		-SN74LS273N				
0027A					U7,U62,U100,U101							
0028	00001.000	EA		0972814-0001	NETWRK-SN74LS27N							
0028A					U48							
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,FR,DUAL,960 CHAR					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0009	REV AC			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946076-0009		REV AC		
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0029	00002.000	EA		0972900-7174	NETWORK SN74LS174N							
0029A					U5,U6							
0030	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI		-SN74LS51N				
0030A					U40,U59							
0031	00001.000	EA		0972688-0001	NETWORK SN74LS164N							
0031A					U49							
0032	00002.000	EA		0972900-7410	NETWORK SN74LS10N							
0032A					U19,U102							
0034	00002.000	EA		0972900-7153	NETWORK SN74LS153N	TI		-SN74LS153N				
0034A					U18,U80							
0035	00001.000	EA		0972556-0002	NETWORK SN74368N							
0035A					U107							
0036	00001.000	EA		0972856-0001	NETWORK, SN74376N							
0036A					U50							
0037	00005.000	EA		022222-7163	NETWORK SN74163N							
0037A					U41,U53,U60,U61,U63							
0039	00002.000	EA		022222-7166	NETWORK SN74166N							
0039A					U34,U104							
0040	00001.000	EA		022222-7406	NETWORK SN7406N							
0040A					U1							
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,FR,DUAL,960 CHAR					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0009	REV AC			

TEXAS INSTRUMENTS INCORPORATED DATE 07/17/79 LIST OF MATERIAL PAGE 5 of PART NUMBER LMD946076-0009 REV AC

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0043	0001.000	EA		0948554-0008	ROM, 713 CRT, 256X4, ROM DECODER 50/960	
0043A					U52	
0044	0001.000	EA		0948554-0009	ROM, 713 CRT, 256X4, SYNC DECODER 50/960	
0044A					U42	
0045	0001.000	EA		0948554-0001	ROM, 713 CRT, 256X8, CHARA DECODER DRIVE	
0045A					U51	
0046	0001.000	EA		0972499-0001	NETWORK, LM320T-5.0/MC7905CP, -5 VOLT	SEE - T1 DRAWING
0046A					VR1	
0049	00004.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 % 200 V	QPL -M39014/01-1379
0049A					C3, C6, C70, C71	
0050	00004.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	QPL - CK068X104K
0050A					C2, C4, C5, C7	
0051	00019.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%	
0051A					C39 THRU C56 C68	
0052	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 % 10 VOLT	QPL -M39003/1-2263
0052A					C34	
0053	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL -M39J03/1-2301
0053A					C33, C35	
0054	00002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093368-784-1R56
0054A					U9, U153	
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY, 911CTLR, 50HZ, FR, DUAL, 960 CHAR						
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LMD946076-0009 REV AC						

TEXAS INSTRUMENTS INCORPORATED DATE 07/17/79 LIST OF MATERIAL PAGE 6 of PART NUMBER LMD946076-0009 REV AC

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25
0062A					R9	
0063	00002.000	EA		0996395-0001	PHONE JACK, MINIATURE, 3.5 MM	SG-802-6
0063A					J1, J2	
0064	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220	
0064A					CR1	
0065	00002.000	EA		0972948-0001	TRANSISTOR, NPN, GEN. PUFF. SW TO-5	T1 - 2N2219A
0065A					Q1, Q2	
0066	00002.000	EA		0419253-0005	HEATSINK, TRANSISTOR	005820-204-CB
0067	00002.000	EA		0530127-0001	PAD, MOUNTING, TO-18 4 LEAD, WHITE	013103- 7717-44N
0068	00002.000	EA		0972854-0002	COLUMN 9PIN PL RELP	000779-207084-2
0068A					J4, J5	
0069	00002.000	EA		0996080-0001	SLIDE LATCH POST KIT	T1 -206514-1
0070	00001.000	EA		0772696-0010	HEADER, 3 PIN .300LG SGL ROW, STRIP OF 3	-0002364
0070A					J3	
0071	00003.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 7 CONT, 16 PINS	003612-D11816P-108
0071A					XU41, XU42, XU52	
0072	00001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D11820P-108
0072A					XU51	
0073	00002.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-D11824P-108
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY, 911CTLR, 50HZ, FR, DUAL, 960 CHAR						
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LMD946076-0009 REV AC						

TEXAS INSTRUMENTS INCORPORATED DATE 07/17/79 LIST OF MATERIAL PAGE 7 of PART NUMBER LMD946076-0009 REV AC

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0073A					XU35, XU105	
0077	00001.000	EA		0946707-0001	STIFFENER, PWB, 11 INCH	
0078	00001.000	EA		0946708-0001	INSULATOR, STIFFENER, PWB, 11 INCH	
0079	00001.000	EA		0944954-0001	INSULATOR, PWB, 14IN	
0080	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN	
0081	00006.000	EA		0972684-0002	SCREW, THD FRMG, HEX WSHR HD, 2-56X1/4 LG	
0086	00003.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH	
0086A					P5 P7 P11	
0087	00009.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75060-007
0088	00001.000	EA		2210188-0002	SOCKET, LOW PROFILE, DIP, 14 PINS	003612-D11814P-108
0088A					XU49	
0089	00002.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-D11840P-108
0089A					XU21 XU92	
0090	00001.000	EA		0972787-0003	NETWORK SN74LS367N	
0090A					U98	
0092	00001.000	EA		0537137-0001	INSULATOR, PLATE, EIGHT LEAD DEVICE	013103-7717-156N
0092A					XU38	
0093	00000.001	EA		0996069-0003	ADM, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302
0100	REF	EA		0946122-9901	SPECIFICATION, 911 CRT DISPLAY TRML KIT	
0101	REF	EA		0946076-9901	LOGIC DIAGRAM, 911 VDT CONTROLLER	
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY, 911CTLR, 50HZ, FR, DUAL, 960 CHAR						
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LMD946076-0009 REV AC						

TEXAS INSTRUMENTS INCORPORATED DATE 07/17/79 LIST OF MATERIAL PAGE 8 of PART NUMBER LMD946076-0009 REV AC

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0102	REF	EA		0948592-9901	TEST PROCEDURE, 911 UNIT, SPARES, SYSTEM	
0103	00001.000	FT		0410499-0006	INSULATION SLEEVING, TEFLON #22 NATURAL	QPL -81349
0104	00006.000	EA		0418730-0101	WASHER, NYLON	
0105	00001.000	EA		0946076-5009	AUTO INSERTION TAPE FOR 946076-0009	
0106	00001.200	FT		0535978-0058	WIRE ELEC., SOLID, "KYNAR" INSUL #30 AWG	
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY, 911CTLR, 50HZ, FR, DUAL, 960 CHAR						
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LMD946076-0009 REV AC						

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0010		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946077-0001	PWB, 713 VIDEO DISPLAY CONTROLLER							
0002	00001.000	EA		0972639-0001	NETWORK, SN75113N							
0002A					U2							
0003	00001.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N						
0003A					U8							
0004	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB							
0005	00001.000	EA		0972894-0001	IC,ROM,1024 WORD BY 8-BIT							
0005A					U105							
0006	00001.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011NC						
0006A					U92							
0007	00001.000	EA		0996307-0001	IC,SN74S373,OCTAL D, FLIPFLOP	TI -SN74S373						
0007A					U106							
0008	00003.000	EA		0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169						
0008A					U74,U75,U76							
0009	00002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74393N	-SN74393N						
0009A					U58,U68							
0010	00001.000	EA		0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A						
0010A					U38							
0011	00001.000	EA		0972141-0057	NETWORK,RES. 4.7 K OHM 2 x 14 PIN DIP	BEC - 899-1-R4.7K						
0011A					U114							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,50HZ,FR,SINGLE,960 CHAR				
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0010		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-0010		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0012	00008.000	EA		0996306-0001	IC,STATIC RAM MEMORY	TI -TMS 4033						
0012A					U138,U140,U142,U144,U146,							
0012B					U148,U150,U152							
0013	00004.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N							
0013A					U67,U83,U135,U136							
0014	00003.000	EA		0972900-7139	NETWORK SN74LS139N	TI -SN74LS139N						
0014A					U93,U103,U116							
0015	00004.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N						
0015A					U3,U70,U78,U115							
0016	00001.000	EA		0972556-0001	NETWORK SN74367N	TI- -SN74367N						
0016A					U109							
0017	00004.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N						
0017A					U71,U72,U73,U86							
0018	00002.000	EA		0972900-7404	NETWORK SN74LS04N							
0018A					U39,U113							
0019	00003.000	EA		0972749-0001	NETWORK, SN74LS08N							
0019A					U20,U81,U97							
0020	00006.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N						
0020A					U43,U79,U89,U108,U110,U111							
0021	00001.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,50HZ,FR,SINGLE,960 CHAR				
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0010		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946076-0010		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0021A					U99							
0022	00004.000	EA		0972159-7251	NETWORK SN74251N	TI -SN74251N						
0022A					U77,U82,U84,U95							
0023	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N						
0023A					U29,U88,U90							
0024	00003.000	EA		0972815-0001	NETWORK-SN74LS85N							
0024A					U64,U65,U66							
0025	00002.000	EA		0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI -SN74LS298N						
0025A					U87,U96							
0026	00002.000	EA		0972900-7402	NETWORK SN74LS02N							
0026A					U69,U112							
0027	00003.000	EA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273N						
0027A					U62,U100,U101							
0028	00001.000	EA		0972814-0001	NETWORK-SN74LS27N							
0028A					U48							
0029	00001.000	EA		0972900-7174	NETWORK SN74LS174N							
0029A					U5							
0030	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N						
0030A					U40,U59							
0031	00001.000	EA		0972688-0001	NETWORK SN74LS164N							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,50HZ,FR,SINGLE,960 CHAR				
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0010		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946076-0010		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0031A					U49							
0032	00001.000	EA		0972900-7410	NETWORK SN74LS10N							
0032A					U102							
0033	00001.000	EA		0801383-0001	NETWORK SN74LS151N							
0033A					U91							
0034	00001.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N						
0034A					U80							
0035	00001.000	EA		0972556-0002	NETWORK SN74368N							
0035A					U107							
0036	00001.000	EA		0972856-0001	NETWORK, SN74376N							
0036A					U50							
0037	00005.000	EA		022222-7163	NETWORK SN74163N							
0037A					U41,U53,U60,U61,U63							
0039	00001.000	EA		022222-7166	NETWORK SN74166N							
0039A					U104							
0040	00001.000	EA		022222-7406	NETWORK SN7406N							
0040A					U1							
0043	00001.000	EA		0948554-0008	ROM,713 CRT,256X4,ROM DECODER 50/960							
0043A					U52							
0044	00001.000	EA		0948554-0009	ROM,713 CRT,256X4,SYNC DECODER 50/960							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY,911CTLR,50HZ,FR,SINGLE,960 CHAR				
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0010		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946076-0010		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0044A					U42						
0045	00001.000	EA		0948554-0001	ROM, 713 CRT, 256X8, CHARA DECODER DRIVE						
0045A					U51						
0046	00001.000	EA		0972499-0001	NETWORK, LM320T-5.0/MC7905CP, -5 VOLT	SEE	-	TI	DRAWING		
0046A					VR1						
0049	00002.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 % 200 V	QPL	-	M39014/01-1379			
0049A					C3, C70						
0050	00002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	QPL	-	CK06BX104K			
0050A					C2, C4						
0051	00009.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0051A					C48 THRU C56						
0052	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 % 10 VOLT	QPL	-	M39003/1-2263			
0052A					C34						
0053	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL	-	M39003/1-2301			
0053A					C33, C35						
0054	00002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093368-784-1R56					
0054A					U9, U153						
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH	-	R-25			
0062A					R9						
0063	00001.000	EA		0996395-0001	PHONE JACK, MINIATURE, 3.5 MM	SG-802-6					
DRAFTSMAN _____ DATE _____ CRO DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ ASSY, 911CTLR, 50HZ, FR, SINGLE, 960 CHAR APPO-ING _____ DATE _____ APPO PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO _____ PART NUMBER _____ REV _____ LM0946076-0010 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946076-0010		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0063A					J1						
0064	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0064A					CR1						
0065	00001.000	EA		0972948-0001	TRANSISTOR, NPN, GEN. PURP. SW TO-5	TI	-	2N2219A			
0065A					Q1						
0066	00001.000	EA		0419253-0005	HEATSINK, TRANSISTOR	005820-204-CB					
0067	00001.000	EA		0530127-0001	PAD, MOUNTING, TO-18 4 LEAD, WHITE	013103-7717-44N					
0068	00001.000	EA		0972854-0002	CONN 9PIN PC RECP	000779-207084-2					
0068A					J4						
0069	00001.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI	-	206514-1			
0070	00001.000	EA		0772696-0010	HEADER, 3 PIN .300LG SGL NUM, STRIP UF 3	-0002304					
0070A					J3						
0071	00003.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 7 CONT, 16 PINS	003612-D1LB16P-108					
0071A					XU41, XU42, XU52						
0072	00001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1LB20P-108					
0072A					XU51						
0073	00001.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-D1LB24P-108					
0073A					XU105						
0077	00001.000	EA		0946707-0001	STIFFENER, PWB, 11 INCH						
0078	00001.000	EA		0946708-0001	INSULATOR, STIFFENER, PWB, 11 INCH						
DRAFTSMAN _____ DATE _____ CRO DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ ASSY, 911CTLR, 50HZ, FR, SINGLE, 960 CHAR APPO-ING _____ DATE _____ APPO PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO _____ PART NUMBER _____ REV _____ LM0946076-0010 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0946076-0010		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0079	00001.000	EA		0944954-0001	INSULATOR, PWB, 14IN						
0080	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN						
0081	00006.000	EA		0972684-0002	SCREW, THD FRMG, HEX WSHR HD, 2-56X1/4 LG						
0086	00002.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH						
0086A					P7 P11						
0087	00006.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75060-007					
0088	00001.000	EA		2210188-0002	SOCKET, LOW PROFILE, DIP, 14 PINS	003612-D1LB14P-108					
0088A					XU49						
0089	00001.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-D1LB40P-108					
0089A					XU92						
0090	00001.000	EA		0972787-0003	NETWORK SN74LS367N						
0090A					U98						
0091	00000.600	FT		2210083-0003	WIRE, ELEC, COND U/L STYLE 1213, 24 AWG	090484-WTE24A					
0091A					R20 THRU R23						
0092	00001.000	EA		0537137-0001	INSULATOR, PLATE, EIGHT LEAD DEVICE	013103-7717-156N					
0092A					XU38						
0093	00000.001	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0100	REF	EA		0946122-9901	SPECIFICATION, 911 CRT DISPLAY TRML KIT						
0101	REF	EA		0946078-9901	LOGIC DIAGRAM, 911 VDT CONTROLLER						
0102	REF	EA		0948592-9901	TEST PROCEDURE, 911 UNIT, SPARES, SYSTEM						
DRAFTSMAN _____ DATE _____ CRO DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ ASSY, 911CTLR, 50HZ, FR, SINGLE, 960 CHAR APPO-ING _____ DATE _____ APPO PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO _____ PART NUMBER _____ REV _____ LM0946076-0010 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM0946076-0010		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0103	00001.000	FT		0410499-0006	INSULATION SLEEVING, TEFLON #22 NATURAL	QPL	-	81349			
0104	00006.000	EA		0418730-0101	WASHER, NYLON						
0105	00001.000	EA		0946076-5010	AUTO INSERTION TAPE FOR 946076-0010						
0106	00001.200	FT		0535978-0058	WIRE ELEC., SOLID, "KYNAR" INSUL #30 AWG						
DRAFTSMAN _____ DATE _____ CRO DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ ASSY, 911CTLR, 50HZ, FR, SINGLE, 960 CHAR APPO-ING _____ DATE _____ APPO PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO _____ PART NUMBER _____ REV _____ LM0946076-0010 AC											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL			PAGE 1 of	PART NUMBER LM0946076-0011	REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER		
0001	00001.000	EA		0946077-0001	PWB, 713 VIDEO DISPLAY CONTROLLER			
0002	00001.000	EA		0972639-0001	NETWORK, SN75113N			
0002A					U2			
0003	00002.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N		
0003A					U8,U10			
0004	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB			
0005	00002.000	EA		0972894-0001	IC,RDM,1024 WORD BY 8-BIT			
0005A					U35,U105			
0006	00002.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011NC		
0006A					U21,U92			
0007	00002.000	EA		0996307-0001	IC,SN74S373,OCTAL D, FLIPFLOP	TI -SN74S373		
0007A					U36,U106			
0008	00006.000	EA		0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169		
0008A					U44,U45,U46,U74,U75,U76			
0009	00002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74393N	-SN74393N		
0009A					U58,U68			
0010	00001.000	EA		0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A		
0010A					U38			
0011	00002.000	EA		0972141-0057	NETWORK,RES. 4.7 K OHM 2 % 14 PIN DIP	BEC - 899-1-R4-7K		
0011A					U12,U114			
DRAFTSMAN					DATE	DESIGN ENGINEER	DATE	TITLE
								ASSY,911CTLR,50HZ,FR,DUAL,1920 CHAR,GRAP
APPD. MFG.					DATE	APPD. PROJECT ENGINEER	DATE	RELEASED
								PART NUMBER LM0946076-0011
								REV AC

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL			PAGE 2 of	PART NUMBER LM0946076-0011	REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER		
0012	00032.000	EA		0996306-0001	IC,STATIC RAM MEMORY	TI -TMS 4033		
0012A					U117 THRU U132			
0012B					U137 THRU U152			
0013	00008.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N			
0013A					U32,U57,U67,U83,U133,U134,			
0013B					U135,U136			
0014	00005.000	EA		0972900-7139	NETWORK SN74LS139N	TI -SN74LS139N		
0014A					U4,U22,U93,U103,U116			
0015	00004.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N		
0015A					U3,U70,U78,U115			
0016	00001.000	EA		0972556-0001	NETWORK SN74367N	TI- -SN74367N		
0016A					U109			
0017	00006.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY B BIT SN74LS259N	TI -SN74LS259N		
0017A					U13,U30,U71,U72,U73,U86			
0018	00002.000	EA		0972900-7404	NETWORK SN74LS04N			
0018A					U39,U113			
0019	00003.000	EA		0972749-0001	NETWORK, SN74LS08N			
0019A					U20,U81,U97			
0020	00010.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N		
0020A					U15,U17,U27,U37,U43,U79,U89			
DRAFTSMAN					DATE	DESIGN ENGINEER	DATE	TITLE
								ASSY,911CTLR,50HZ,FR,DUAL,1920 CHAR,GRAP
APPD. MFG.					DATE	APPD. PROJECT ENGINEER	DATE	RELEASED
								PART NUMBER LM0946076-0011
								REV AC

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL			PAGE 3 of	PART NUMBER LM0946076-0011	REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER		
0020B					U108,U110,U111			
0021	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N		
0021A					U28,U99			
0022	00008.000	EA		0972159-7251	NETWORK SN74251N	TI -SN74251N		
0022A					U25,U31,U33,U47,U77,U82,U84			
0022B					U95			
0023	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N		
0023A					U29,U88,U90			
0024	00006.000	EA		0972815-0001	NETWORK-SN74LS85N			
0024A					U54,U55,U56,U64,U65,U66			
0025	00004.000	EA		0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI -SN74LS298N		
0025A					U14,U26,U87,U96			
0026	00003.000	EA		0972900-7402	NETWORK SN74LS02N			
0026A					U11,U69,U112			
0027	00004.000	EA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273N		
0027A					U7,U62,U100,U101			
0028	00001.000	EA		0972814-0001	NETWORK-SN74LS27N			
0028A					U48			
0029	00002.000	EA		0972900-7174	NETWORK SN74LS174N			
0029A					U5,U6			
DRAFTSMAN					DATE	DESIGN ENGINEER	DATE	TITLE
								ASSY,911CTLR,50HZ,FR,DUAL,1920 CHAR,GRAP
APPD. MFG.					DATE	APPD. PROJECT ENGINEER	DATE	RELEASED
								PART NUMBER LM0946076-0011
								REV AC

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL			PAGE 4 of	PART NUMBER LM0946076-0011	REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER		
0030	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N		
0030A					U40,U59			
0031	00001.000	EA		0972688-0001	NETWORK SN74LS164N			
0031A					U49			
0032	00002.000	EA		0972900-7410	NETWORK SN74LS10N			
0032A					U19,U102			
0033	00002.000	EA		0801383-0001	NETWORK SN74LS151N			
0033A					U16,U91			
0034	00002.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N		
0034A					U18,U80			
0035	00001.000	EA		0972556-0002	NETWORK SN74368N			
0035A					U107			
0036	00001.000	EA		0972856-0001	NETWORK, SN74376N			
0036A					U50			
0037	00004.000	EA		0222222-7163	NETWORK SN74163N			
0037A					U53,U60,U61,U63			
0038	00001.000	EA		0222222-7162	NETWORK,SN74162N			
0038A					U41			
0039	00002.000	EA		0222222-7166	NETWORK SN74166N			
0039A					U34,U104			
DRAFTSMAN					DATE	DESIGN ENGINEER	DATE	TITLE
								ASSY,911CTLR,50HZ,FR,DUAL,1920 CHAR,GRAP
APPD. MFG.					DATE	APPD. PROJECT ENGINEER	DATE	RELEASED
								PART NUMBER LM0946076-0011
								REV AC

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946076-0011		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0040	00001.000	EA		022222-7406	NETWORK SN7406N						
0040A					U1						
0041	00002.000	EA		0972923-0001	IC,ROM,32 WORDS BY 8 BITS,SN7488N						
0041A					U24,U94						
0042	00002.000	EA		0972923-0002	IC,ROM,32 WORDS BY 8 BITS,SN7488N						
0042A					U23,U85						
0043	00001.000	EA		0948554-0006	ROM,713 CRT,256X4,ROM DECODER 50/1920						
0043A					U52						
0044	00001.000	EA		0948554-0007	ROM,713 CRT,256X4,SYNC DECODER 50/1920						
0044A					U42						
0045	00001.000	EA		0948554-0001	ROM,713 CRT,256X8,CHAKA DECODER DRIVE						
0045A					U51						
0046	00001.000	EA		0972499-0001	NETWORK,LM320T-5.0/MC7905CP,-5 VOLT	SEE	- TI DRAWING				
0046A					VR1						
0049	00004.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 X 200 V	QPL	-M3901-701-1379				
0049A					C3,C6,C70,C71						
0050	00004.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10X 100V	QPL	- CK068X104K				
0050A					C2,C4,C5,C7						
0051	00019.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C39 THRU C56 C68						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,50HZ,FR,DUAL,1920 CHAR,GRAP											
APPO MFG DATE APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0011 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946076-0011		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0052	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 X 10 VOLT	QPL	-M39003/1-2263				
0052A					C34						
0053	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 X 20 VOLT	QPL	-M39003/1-2301				
0053A					C33,C35						
0054	00002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093368-784-1R56					
0054A					U9,U153						
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 X .25 W CARBON FILM	ROH	- R-25				
0062A					R9						
0063	00002.000	EA		0996395-0001	PHONE JACK,MINIATURE,3.5 MM	SG-802-6					
0063A					J1,J2						
0064	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0064A					CR1						
0065	00002.000	EA		0972948-0001	TRANSISTOR, NPN,GEN.PURP.-SM TO-5	TI	- 2N2219A				
0065A					Q1,Q2						
0066	00002.000	EA		0419253-0005	HEATSINK,TRANSISTOR	005820-204-CB					
0067	00002.000	EA		0530127-0001	PAD,MOUNTING,TO-18 4 LEAD, WHITE	013103-7717-44N					
0068	00002.000	EA		0972854-0002	CONN 9PIN PC RECP	000779-207084-2					
0068A					J4,J5						
0069	00002.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI	-206514-1				
0070	00001.000	EA		0772696-0010	HEADER,3 PIN .300LG SGL ROW,STRIP OF 3	-0002364					
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,50HZ,FR,DUAL,1920 CHAR,GRAP											
APPO MFG DATE APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0011 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0946076-0011		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0070A					J3						
0071	00007.000	EA		2210188-0003	SOCKET,LOW PROFILE,DIP, 7 CONT, 16 PINS	003612-DIL816P-108					
0071A					XU23,XU24,XU41,XU42,XU52,						
0071B					XU85,XU94						
0072	00001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-DIL820P-108					
0072A					XU51						
0073	00002.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-DIL824P-108					
0073A					XU35,XU105						
0077	00001.000	EA		0946707-0001	STIFFENER,PWB,11 INCH						
0078	00001.000	EA		0946708-0001	INSULATOR,STIFFENER,PWB,11 INCH						
0079	00001.000	EA		0944954-0001	INSULATOR, PWB, 14IN						
0080	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN						
0081	00006.000	EA		0972684-0002	SCREW,THD FRMG,HEX WSHR HD,2-56X1/4 LG						
0086	00004.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH						
0086A					P6 P8 P9 P10						
0087	00011.000	EA		0996864-0001	CONNECTOR,SOCKET PCB	022526-75060-007					
0088	00001.000	EA		2210188-0002	SOCKET,LOW PROFILE,DIP, 14 PINS	003612-DIL814P-108					
0088A					XU49						
0089	00002.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-DIL840P-108					
0089A					XU21 XU92						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,50HZ,FR,DUAL,1920 CHAR,GRAP											
APPO MFG DATE APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0011 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM0946076-0011		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0090	00001.000	EA		0972787-0003	NETWORK SN74LS367N						
0090A					U98						
0092	00001.000	EA		0537137-0001	INSULATOR,PLATE,EIGHT LEAD DEVICE	013103-7717-156N					
0092A					XU38						
0093	00000.001	EA		0996069-0003	ADH,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0100	REF	EA		0946122-9901	SPECIFICATION,911 CRT DISPLAY TRML KIT						
0101	REF	EA		0946078-9901	LOGIC DIAGRAM,911 VDT CONTROLLER						
0102	REF	EA		0948592-9901	TEST PROCEDURE,911 UNIT,SPARES,SYSTEM						
0103	00001.000	FT		0410499-0006	INSULATION SLEEVING,TEFLON #22 NATURAL	QPL	-81349				
0104	00006.000	EA		0418730-0101	WASHER,NYLON						
0105	00001.000	EA		0946076-5011	AUTO INSERTION TAPE FOR 946076-0011						
0106	00001.200	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,911CTLR,50HZ,FR,DUAL,1920 CHAR,GRAP											
APPO MFG DATE APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-0011 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0012		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0946077-0001	PWB, 713 VIDEO DISPLAY CONTROLLER						
0002	0001.000	EA		0972639-0001	NETWORK, SN75113N						
0002A					U2						
0003	0001.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N					
0003A					U8						
0004	0002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0005	0001.000	EA		0972894-0001	IC,ROM,1024 WORD BY 8-BIT						
0005A					U105						
0006	0001.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-TI-TMS6011NC					
0006A					U92						
0007	0001.000	EA		0996307-0001	IC,SN74S373,OCTAL D, FLIPFLOP	TI -SN74S373					
0007A					U106						
0008	0003.000	EA		0996305-0001	IC,SN74S169 UP/DOWN COUNTER,4 BIT	001295-SN74S169					
0008A					U74,U75,U76						
0009	0002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74393N	-SN74393N					
0009A					U58,U68						
0010	0001.000	EA		0996059-0009	OSCILLATOR,11.004MHZ 0.01% CRYSTAL CONT	001537-K-1100A					
0010A					U38						
0011	0001.000	EA		0972141-0057	NETWORK,RES. 4.7 K OHM 2 % 14 PIN DIP	BEC - 899-1-R4-7K					
0011A					U114						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
ASSY,911CTLR,50HZ,FR,SGLE,1920 CHAR,GRAP											
APPROVING DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO											
PART NUMBER LM0946076-0012											
REV AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-0012		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0012	00016.000	EA		0996306-0001	IC,STATIC RAM MEMORY	TI -TMS 4033					
0012A					U137 THRU U152						
0013	00004.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0013A					U67,U83,U135,U136						
0014	00003.000	EA		0972900-7139	NETWORK SN74LS139N	TI -SN74LS139N					
0014A					U93,U103,U116						
0015	00004.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N					
0015A					U3,U70,U78,U115						
0016	00001.000	EA		0972556-0001	NETWORK SN74367N	TI- -SN74367N					
0016A					U109						
0017	00004.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N					
0017A					U71,U72,U73,U86						
0018	00002.000	EA		0972900-7404	NETWORK SN74LS04N						
0018A					U39,U113						
0019	00003.000	EA		0972749-0001	NETWORK, SN74LS08N						
0019A					U20,U81,U97						
0020	00006.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N					
0020A					U43,U79,U89,U108,U110,U111						
0021	00001.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N					
0021A					U99						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
ASSY,911CTLR,50HZ,FR,SGLE,1920 CHAR,GRAP											
APPROVING DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO											
PART NUMBER LM0946076-0012											
REV AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946076-0012		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0022	00004.000	EA		0972159-7251	NETWORK SN74251N	TI -SN74251N					
0022A					U77,U82,U84,U95						
0023	00003.000	FA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N					
0023A					U29,U88,U90						
0024	00003.000	EA		0972815-0001	NETWORK-SN74LS85N						
0024A					U64,U65,U66						
0025	00002.000	EA		0996049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI -SN74LS298N					
0025A					U87,U96						
0026	00002.000	EA		0972900-7402	NETWORK SN74LS02N						
0026A					U69,U112						
0027	00003.000	EA		0996029-0001	IC,SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273N					
0027A					U62,U100,U101						
0028	00001.000	EA		0972814-0001	NETWORK-SN74LS27N						
0028A					U48						
0029	00001.000	EA		0972900-7174	NETWORK SN74LS174N						
0029A					U5						
0030	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N					
0030A					U40,U59						
0031	00001.000	EA		0972688-0001	NETWORK SN74LS164N						
0031A					U49						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
ASSY,911CTLR,50HZ,FR,SGLE,1920 CHAR,GRAP											
APPROVING DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO											
PART NUMBER LM0946076-0012											
REV AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946076-0012		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0032	00001.000	EA		0972900-7410	NETWORK SN74LS10N						
0032A					U102						
0033	00001.000	EA		0801383-0001	NETWORK SN74LS151N						
0033A					U91						
0034	00001.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N					
0034A					U80						
0035	00001.000	EA		0972556-0002	NETWORK SN74368N						
0035A					U107						
0036	00001.000	EA		0972856-0001	NETWORK, SN74376N						
0036A					U50						
0037	00004.000	EA		0222222-7163	NETWORK SN74163N						
0037A					U53,U60,U61,U63						
0038	00001.000	EA		0222222-7162	NETWORK,SN74162N						
0038A					U41						
0039	00001.000	EA		0222222-7166	NETWORK SN74166N						
0039A					U104						
0040	00001.000	EA		0222222-7406	NETWORK SN7406N						
0040A					U1						
0041	00001.000	EA		0972923-0001	IC,ROM,32 WORDS BY 8 BITS,SN7488N						
0041A					U94						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
ASSY,911CTLR,50HZ,FR,SGLE,1920 CHAR,GRAP											
APPROVING DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO											
PART NUMBER LM0946076-0012											
REV AC											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946076-0012		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0042	00001.000	EA		0972923-0002	IC,ROM,32 WORDS BY 8 BITS,5M7488M				
0042A					U85				
0043	00001.000	EA		0948554-0006	ROM,713 CRT,256X4,ROM DECODER 50/1920				
0043A					U52				
0044	00001.000	EA		0948554-0007	ROM,713 CRT,256X4,SYNC DECODER 50/1920				
0044A					U42				
0045	00001.000	EA		0948554-0001	ROM,713 CRT,256X8,CHARA DECODER DRIVE				
0045A					U51				
0046	00001.000	EA		0972499-0001	NETWORK,LM320T-5.0/MC7905CP,-5 VOLT	SEE	- TI DRAWING		
0046A					VR1				
0049	00002.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 % 200 V	QPL	-M39014/01-1379		
0049A					C3,C70				
0050	00002.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	QPL	- CK068X104K		
0050A					C2,C4				
0051	00009.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%, -20%				
0051A					C48 THRU C56				
0052	00001.000	EA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 % 10 VOLT	QPL	-M39003/1-2263		
0052A					C34				
0053	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL	-M39003/1-2301		
0053A					C33,C35				
DRAFTSMAN: DATE: C/D DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY,911CTLR,50HZ,FR,SGLE,1920 CHAR,GRAP APP'D: MFG: DATE: APP'D: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-0012 AC									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946076-0012		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0054	00002.000	EA		0996397-0001	RES NETWORK 56 OHMS 1.0 WATT 2%	093368-784-1R56			
0054A					U9,U153				
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH	- R-25		
0062A					R9				
0063	00001.000	EA		0996395-0001	PHONE JACK,MINIATURE,3.5 MM	SG-802-6			
0063A					J1				
0064	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220				
0064A					CR1				
0065	00001.000	EA		0972948-0001	TRANSISTOR, NPN,GEN.PURP.SW TO-5	TI	- 2N2219A		
0065A					Q1				
0066	00001.000	EA		0419253-0005	HEATSINK,TRANSISTOR	005820-204-C8			
0067	00001.000	EA		0530127-0001	PAD,MOUNTING,TO-18 4 LEAD, WHITE	013103- 7717-44N			
0068	00001.000	EA		0972854-0002	CONN 9PIN PC RECP	000779-207084-2			
0068A					J4				
0069	00001.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI	-206514-1		
0070	00001.000	EA		0772696-0010	HEADER,3 PIN .300LG SGL ROW,STRIP OF 3	-0002364			
0070A					J3				
0071	00005.000	EA		2210188-0003	SOCKET,LOW PROFILE,DIP, 7 CONT, 16 PINS	003612-D1L816P-108			
0071A					XU41,XU42,XU52,XU85,XU94				
0072	00001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1L820P-108			
DRAFTSMAN: DATE: C/D DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY,911CTLR,50HZ,FR,SGLE,1920 CHAR,GRAP APP'D: MFG: DATE: APP'D: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-0012 AC									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0946076-0012		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0072A					XU51				
0073	00001.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-D1L824P-108			
0073A					XU105				
0077	00001.000	EA		0946707-0001	STIFFENER,PWB,11 INCH				
0078	00001.000	EA		0946708-0001	INSULATOR,STIFFENER,PWB,11 INCH				
0079	00001.000	EA		0944954-0001	INSULATOR, PWB, 14IN				
0080	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN				
0081	00006.000	EA		0972684-0002	SCREW,THD FRMG,HEX WSHR HD,2-56X1/4 LG				
0086	00003.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH				
0086A					P8 P9 P10				
0087	00008.000	EA		0996864-0001	CONNECTOR,SOCKET PCB	022526-75060-007			
0088	00001.000	EA		2210188-0002	SOCKET,LOW PROFILE,DIP, 14 PINS	003612-D1L814P-108			
0088A					XU49				
0089	00001.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-D1L840P-108			
0089A					XU92				
0090	00001.000	EA		0972787-0003	NETWORK 5N74LS367N				
0090A					U98				
0091	00000.600	FT		2210083-0003	WIRE,ELEC,COND U/L STYLE 1213,24 AWG	090484-WTE24A			
0091A					R20 THRU R23				
0092	00001.000	EA		0537137-0001	INSULATOR,PLATE,EIGHT LEAD DEVICE	013103-7717-156N			
DRAFTSMAN: DATE: C/D DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY,911CTLR,50HZ,FR,SGLE,1920 CHAR,GRAP APP'D: MFG: DATE: APP'D: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-0012 AC									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM0946076-0012		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0092A					XU38				
0093	00000.001	EA		0996069-0003	ADH,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302			
0100	REF	EA		0946122-9901	SPECIFICATION,911 CRT DISPLAY TRML KIT				
0101	REF	EA		0946078-9901	LOGIC DIAGRAM,911 VOT CONTROLLER				
0102	REF	EA		0948592-9901	TEST PROCEDURE,911 UNIT,SPARES,SYSTEM				
0103	00001.000	FT		0410499-0006	INSULATION SLEEVING,TEFLON #22 NATURAL	QPL	-81349		
0104	00006.000	EA		0418730-0101	WASHER,NYLON				
0105	00001.000	EA		0946076-5012	AUTO INSERTION TAPE FOR 946076-0012				
0106	00001.200	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG				
DRAFTSMAN: DATE: C/D DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: ASSY,911CTLR,50HZ,FR,SGLE,1920 CHAR,GRAP APP'D: MFG: DATE: APP'D: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-0012 AC									

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0109		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0009	ASSY,911CTLR,50HZ,FF,DUAL,960 CHAR							
0002	00002.000	EA		2263592-0001	EPROM,8K CHAR,INTL-UK U35,U105							
0002A												
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE,911 CONTROLLER							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,GB,DUAL,960 CHAR					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0109		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0110		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0010	ASSY,911CTLR,50HZ,FR,SINGLE,960 CHAR							
0002	00001.000	EA		2263592-0001	EPROM,8K CHAR,INTL-UK U105							
0002A												
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE,911 CONTROLLER							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,GB,SINGLE,960 CHAR					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0110		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0111		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0011	ASSY,911CTLR,50HZ,FR,DUAL,1920 CHAR,GRAP							
0002	00002.000	EA		2263592-0001	EPROM,8K CHAR,INTL-UK U35,U105							
0002A												
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE,911 CONTROLLER							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,GB,DUAL,1920 CHAR,GRAP					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0111		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0112		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0012	ASSY,911CTLR,50HZ,FR,SGLE,1920 CHAR,GRAP							
0002	00001.000	EA		2263592-0001	EPROM,8K CHAR,INTL-UK U105							
0002A												
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE,911 CONTROLLER							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,GB,SGLE,1920 CHAR,GRAP					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM0946076-0112		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0209		REV AC	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0946076-0009	ASSY, 911CTLR, 50HZ, FR, DUAL, 960 CHAR						
0002	00002.000	EA		2263592-0002	EPROM, 8K CHAR, INTL-GERMANY						
0002A					U35, U105						
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE, 911 CONTROLLER						

DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911CTLR, 50HZ, 6Y, DUAL, 960 CHAR						
APPD. MFG	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0209	REV AC				

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0210		REV AC	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0946076-0010	ASSY, 911CTLR, 50HZ, FR, SINGLE, 960 CHAR						
0002	00001.000	EA		2263592-0002	EPROM, 8K CHAR, INTL-GERMANY						
0002A					U105						
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE, 911 CONTROLLER						

DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911CTLR, 50HZ, 6Y, SINGLE, 960 CHAR						
APPD. MFG	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0210	REV AC				

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0211		REV AC	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0946076-0011	ASSY, 911CTLR, 50HZ, FR, DUAL, 1920 CHAR, GRAP						
0002	00002.000	EA		2263592-0002	EPROM, 8K CHAR, INTL-GERMANY						
0002A					U35, U105						
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE, 911 CONTROLLER						

DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911CTLR, 50HZ, 6Y, DUAL, 1920 CHAR, GRAP						
APPD. MFG	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0211	REV AC				

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0212		REV AC	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0946076-0012	ASSY, 911CTLR, 50HZ, FR, SGL, 1920 CHAR, GRAP						
0002	00001.000	EA		2263592-0002	EPROM, 8K CHAR, INTL-GERMANY						
0002A					U105						
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE, 911 CONTROLLER						

DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911CTLR, 50HZ, 6Y, SGL, 1920 CHAR, GRAP						
APPD. MFG	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0212	REV AC				

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0309		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0009	ASSY,911CTLR,50HZ,FR,DUAL,960 CHAR							
0002	00002.000	EA		2263592-0003	EPROM,8K CHAR,INTL-DENMARK/NORWAY							
0002A					U35,U105							
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE,911 CONTROLLER							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,D/N,DUAL,960 CHAR					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0309		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0310		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0010	ASSY,911CTLR,50HZ,FR,SINGLE,960 CHAR							
0002	00001.000	EA		2263592-0003	EPROM,8K CHAR,INTL-DENMARK/NORWAY							
0002A					U105							
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE,911 CONTROLLER							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,D/N,SINGLE,960 CHAR					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0310		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0311		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0011	ASSY,911CTLR,50HZ,FR,DUAL,1920 CHAR,GRAP							
0002	00002.000	EA		2263592-0003	EPROM,8K CHAR,INTL-DENMARK/NORWAY							
0002A					U35,U105							
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE,911 CONTROLLER							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,D/N,DUAL,1920 CHAR,GRP					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0311		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0312		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0012	ASSY,911CTLR,50HZ,FR,SGLE,1920 CHAR,GRAP							
0002	00001.000	EA		2263592-0003	EPROM,8K CHAR,INTL-DENMARK/NORWAY							
0002A					U105							
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE,911 CONTROLLER							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,911CTLR,50HZ,D/N,SGLE,1920 CHAR,GRP					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0312		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0409		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0009	ASSY, 911CTLR, 50HZ, FR, DUAL, 960 CHAR							
0002	00002.000	EA		2263592-0004	EPR0M, 8K CHAR, INTL-FINLAND/SWEDEN							
0002A					U35, U105							
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE, 911 CONTROLLER							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911CTLR, 50HZ, S/F, DUAL, 960 CHAR					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0409		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0410		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0010	ASSY, 911CTLR, 50HZ, FR, SINGLE, 960 CHAR							
0002	00001.000	EA		2263592-0004	EPR0M, 8K CHAR, INTL-FINLAND/SWEDEN							
0002A					U105							
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE, 911 CONTROLLER							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911CTLR, 50HZ, S/F, SINGLE, 960 CHAR					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0410		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0411		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0011	ASSY, 911CTLR, 50HZ, FR, DUAL, 1920 CHAR, GRP							
0002	00002.000	EA		2263592-0004	EPR0M, 8K CHAR, INTL-FINLAND/SWEDEN							
0002A					U35, U105							
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE, 911 CONTROLLER							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911CTLR, 50HZ, S/F, DUAL, 1920 CHAR, GRP					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0411		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-0412		REV AC		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946076-0012	ASSY, 911CTLR, 50HZ, FR, SGL, 1920 CHAR, GRP							
0002	00001.000	EA		2263592-0004	EPR0M, 8K CHAR, INTL-FINLAND/SWEDEN							
0002A					U105							
0003	REF	EA		2263498-9901	MODIFICATION PROCEDURE, 911 CONTROLLER							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, 911CTLR, 50HZ, S/F, SGL, 1920 CHAR, GRP					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0946076-0412		REV AC		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-5001		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT	QPL -M39003/1-2283					
0047A					C8						
0048	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 % 50 VOLT	QPL -M39003/1-2356					
0048A					C9						
0051	00039.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C1 C10 THRU C32 C36 THRU						
0051B					C38 C57 THRU C67 C69						
0055	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0055A					R8						
0056	00002.000	EA		0972946-0045	FES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0056A					R3 R14						
0057	00002.000	EA		0972946-0064	RES FIX 910 OHM 5% .25 W CARBON FILM	ROH - R-25					
0057A					R2 R13						
0058	00004.000	EA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0058A					R4 R5 R15 R16						
0059	00002.000	EA		0972947-0052	RES FIX 300 OHM 5% .5 W CARBON FILM	ROH - R-50					
0059A					R1 R12						
0060	00002.000	EA		0972947-0063	RES FIX 820 OHM 5% .5 W CARBON FILM	ROH - R-50					
0060A					R6 R17						
0061	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH - R-25					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0001											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0946076-5001 REV AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-5001		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061A					R18						
0062	00003.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0062A					R7 R10 R11						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0001											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0946076-5001 REV AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-5002		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT	QPL -M39003/1-2283					
0047A					C8						
0048	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 % 50 VOLT	QPL -M39003/1-2356					
0048A					C9						
0051	00032.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C1 C10 C11 C12 C14 C17 C18						
0051B					C21 THRU C32 C36 C37 C38						
0051C					C57 THRU C66						
0055	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0055A					R8						
0056	00001.000	EA		0972946-0045	FES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0056A					R3						
0057	00001.000	EA		0972946-0064	RES FIX 910 OHM 5% .25 W CARBON FILM	ROH - R-25					
0057A					R2						
0058	00002.000	EA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0058A					R4 R5						
0059	00001.000	EA		0972947-0052	RES FIX 300 OHM 5% .5 W CARBON FILM	ROH - R-50					
0059A					R1						
0060	00001.000	EA		0972947-0063	FES FIX 820 OHM 5% .5 W CARBON FILM	ROH - R-50					
0060A					R6						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0002											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0946076-5002 REV AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-5002		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH - R-25					
0061A					R18						
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0062A					R7						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0002											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0946076-5002 REV AC											

TEXAS INSTRUMENTS INCORPORATED DATE 07/17/79 LIST OF MATERIAL PAGE 1 of PART NUMBER LM0946076-5003 REV AC

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0047	0001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT	QPL -M39003/1-2283
0047A					C8	
0048	0001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 % 50 VOLT	QPL -M39003/1-2356
0048A					C9	
0051	00039.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%	
0051A					C1 C10 THRU C32 C36 THRU	
0051B					C38 C57 THRU C67 C69	
0055	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - R-25
0055A					R8	
0056	00002.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25
0056A					R3 R14	
0057	00002.000	EA		0972946-0064	RES FIX 910 OHM 5% .25 W CARBON FILM	ROH - R-25
0057A					R2 R13	
0058	00004.000	EA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W.CARBON FILM	ROH - R-25
0058A					R4 R5 R15 R16	
0059	00002.000	EA		0972947-0052	RES FIX 300 OHM 5% .5 W CARBON FILM	ROH - R-50
0059A					R1 R12	
0060	00002.000	EA		0972947-0063	RES FIX 820 OHM 5% .5 W CARBON FILM	ROH - R-50
0060A					R6 R17	
0061	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH - R-25
DRAFTSMAN: DATE: CED DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO INSERTION TAPE FOR 946076-0003						
APPRO. MFG: DATE: APPRO. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-5003 AC						

TEXAS INSTRUMENTS INCORPORATED DATE 07/17/79 LIST OF MATERIAL PAGE 2 of PART NUMBER LM0946076-5003 REV AC

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0061A					R18	
0062	00003.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25
0062A					R7 R10 R11	
DRAFTSMAN: DATE: CED DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO INSERTION TAPE FOR 946076-0003						
APPRO. MFG: DATE: APPRO. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-5003 AC						

TEXAS INSTRUMENTS INCORPORATED DATE 07/17/79 LIST OF MATERIAL PAGE 1 of PART NUMBER LM0946076-5004 REV AC

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0047	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT	QPL -M39003/1-2283
0047A					C8	
0048	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 % 50 VOLT	QPL -M39003/1-2356
0048A					C9	
0051	00032.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%	
0051A					C1 C10 C11 C12 C14 C17 C18	
0051B					C21 THRU C32 C36 C37 C38	
0051C					C57 THRU C66	
0055	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - R-25
0055A					R8	
0056	00001.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25
0056A					R3	
0057	00001.000	EA		0972946-0064	RES FIX 910 OHM 5% .25 W CARBON FILM	ROH - R-25
0057A					R2	
0058	00002.000	EA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W.CARBON FILM	ROH - R-25
0058A					R4 R5	
0059	00001.000	EA		0972947-0052	RES FIX 300 OHM 5% .5 W CARBON FILM	ROH - R-50
0059A					R1	
0060	00001.000	EA		0972947-0063	RES FIX 820 OHM 5% .5 W CARBON FILM	ROH - R-50
0060A					R6	
DRAFTSMAN: DATE: CED DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO INSERTION TAPE FOR 946076-0004						
APPRO. MFG: DATE: APPRO. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-5004 AC						

TEXAS INSTRUMENTS INCORPORATED DATE 07/17/79 LIST OF MATERIAL PAGE 2 of PART NUMBER LM0946076-5004 REV AC

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0061	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH - R-25
0061A					R18	
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25
0062A					R7	
DRAFTSMAN: DATE: CED DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO INSERTION TAPE FOR 946076-0004						
APPRO. MFG: DATE: APPRO. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM0946076-5004 AC						

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-5005		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT QPL	-M39003/1-2283					
0047A					C8						
0048	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 % 50 VOLT QPL	-M39003/1-2356					
0048A					C9						
0051	00039.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C1 C10 THRU C32 C36 THRU						
0051B					C38 C57 THRU C67 C69						
0055	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - K-25					
0055A					R8						
0056	00002.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0056A					R3 R14						
0057	00002.000	EA		0972946-0064	RES FIX 910 OHM 5% .25 W CARBON FILM	ROH - R-25					
0057A					R2 R13						
0058	00004.000	EA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W CARBON FILM	ROH - K-25					
0058A					R4 R5 R15 R16						
0059	00002.000	EA		0972947-0052	RES FIX 300 OHM 5% .5 W CARBON FILM	ROH - R-50					
0059A					R1 R12						
0060	00002.000	EA		0972947-0063	RES FIX 820 OHM 5% .5 W CARBON FILM	ROH - R-50					
0060A					R6 R17						
0061	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH - R-25					
DRAFTSMAN DATE CVD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0005											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO LM0946076-5005 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-5005		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061A					R18						
0062	00003.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0062A					R7 R10 R11						
DRAFTSMAN DATE CVD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0005											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO LM0946076-5005 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-5006		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT QPL	-M39003/1-2283					
0047A					C8						
0048	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 % 50 VOLT QPL	-M39003/1-2356					
0048A					C9						
0051	00032.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C1 C10 C11 C12 C14 C17 C18						
0051B					C21 THRU C32 C36 C37 C38						
0051C					C57 THRU C66						
0055	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0055A					R8						
0056	00001.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0056A					R3						
0057	00001.000	EA		0972946-0064	RES FIX 910 OHM 5% .25 W CARBON FILM	ROH - R-25					
0057A					R2						
0058	00002.000	EA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0058A					R4 R5						
0059	00001.000	EA		0972947-0052	RES FIX 300 OHM 5% .5 W CARBON FILM	ROH - R-50					
0059A					R1						
0060	00001.000	EA		0972947-0063	RES FIX 820 OHM 5% .5 W CARBON FILM	ROH - R-50					
0060A					R6						
DRAFTSMAN DATE CVD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0006											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO LM0946076-5006 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-5006		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061	00001.000	EA		0972946-0081	RES FIX +.7K OHM 5 % .25 W CARBON FILM	ROH - R-25					
0061A					R18						
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0062A					R7						
DRAFTSMAN DATE CVD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0006											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO LM0946076-5006 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-5007		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT	QPL -M39003/1-2283					
0047A					C8						
0048	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 % 50 VOLT	QPL -M39003/1-2356					
0048A					C9						
0051	00039.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C1 C10 THRU C32 C36 THRU						
0051B					C38 C57 THRU C67 C69						
0055	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0055A					R8						
0056	00002.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0056A					R3 R14						
0057	00002.000	EA		0972946-0064	RES FIX 910 OHM 5% .25 W CARBON FILM	ROH - R-25					
0057A					R2 R13						
0058	00004.000	EA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W.CARBON FILM	ROH - R-25					
0058A					R4 R5 R15 R16						
0059	00002.000	EA		0972947-0052	RES FIX 300 OHM 5% .5 W CARBON FILM	ROH - R-50					
0059A					R1 R12						
0060	00002.000	EA		0972947-0063	RES FIX 820 OHM 5% .5 W CARBON FILM	ROH - R-50					
0060A					R6 R17						
0061	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH - R-25					
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0007											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-5007 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-5007		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061A					R18						
0062	00003.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0062A					R7 R10 R11						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0007											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-5007 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-5008		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT	QPL -M39003/1-2283					
0047A					C8						
0048	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 % 50 VOLT	QPL -M39003/1-2356					
0048A					C9						
0051	00032.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C1 C10 C11 C12 C14 C17 C18						
0051B					C21 THRU C32 C36 C37 C38						
0051C					C57 THRU C66						
0055	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0055A					R8						
0056	00001.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0056A					R3						
0057	00001.000	EA		0972946-0064	RES FIX 910 OHM 5% .25 W CARBON FILM	ROH - R-25					
0057A					R2						
0058	00002.000	EA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W.CARBON FILM	ROH - R-25					
0058A					R4 R5						
0059	00001.000	EA		0972947-0052	RES FIX 300 OHM 5% .5 W CARBON FILM	ROH - R-50					
0059A					R1						
0060	00001.000	EA		0972947-0063	RES FIX 820 OHM 5% .5 W CARBON FILM	ROH - R-50					
0060A					R6						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0008											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-5008 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-5008		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH - R-25					
0061A					R18						
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0062A					R7						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0008											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-5008 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-5009		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT	QPL -M39003/1-2283					
0047A					C8						
0048	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 % 50 VOLT	QPL -M39003/1-2356					
0048A					C9						
0051	00039.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C1 C10 THRU C32 C36 THRU						
0051B					C38 C57 THRU C67 C69						
0055	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0055A					R8						
0056	00002.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0056A					R3 R14						
0057	00002.000	EA		0972946-0064	RES FIX 910 OHM 5% .25 W CARBON FILM	ROH - R-25					
0057A					R2 R13						
0058	00004.000	EA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0058A					R4 R5 R15 R16						
0059	00002.000	EA		0972947-0052	RES FIX 300 OHM 5% .5 W CARBON FILM	ROH - R-50					
0059A					R1 R12						
0060	00002.000	EA		0972947-0063	RES FIX 820 OHM 5% .5 W CARBON FILM	ROH - R-50					
0060A					R6 R17						
0061	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH - R-25					
DRAFTSMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0009											
APPRO. MFG. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0946076-5009 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-5009		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061A					R18						
0062	00003.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0062A					R7 R10 R11						
DRAFTSMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0009											
APPRO. MFG. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0946076-5009 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-5010		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT	QPL -M39003/1-2283					
0047A					C8						
0048	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 % 50 VOLT	QPL -M39003/1-2356					
0048A					C9						
0051	00032.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C1 C10 C11 C12 C14 C17 C18						
0051B					C21 THRU C32 C36 C37 C38						
0051C					C57 THRU C66						
0055	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0055A					R8						
0056	00001.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0056A					R3						
0057	00001.000	EA		0972946-0064	RES FIX 910 OHM 5% .25 W CARBON FILM	ROH - R-25					
0057A					R2						
0058	00002.000	EA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0058A					R4 R5						
0059	00001.000	EA		0972947-0052	RES FIX 300 OHM 5% .5 W CARBON FILM	ROH - R-50					
0059A					R1						
0060	00001.000	EA		0972947-0063	RES FIX 820 OHM 5% .5 W CARBON FILM	ROH - R-50					
0060A					R6						
DRAFTSMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0010											
APPRO. MFG. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0946076-5010 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-5010		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH - R-25					
0061A					R18						
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0062A					R7						
DRAFTSMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0010											
APPRO. MFG. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0946076-5010 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-5011		REV AC	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 X 20 VOLT	QPL -M39003/1-2283					
0047A					C8						
0048	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 X 50 VOLT	QPL -M39003/1-2356					
0048A					C9						
0051	00035.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C1 C10 THRU C32 C36 THRU						
0051B					C38 C57 THRU C67 C69						
0055	00001.000	EA		0972946-0057	RES FIX 47J OHM 5 X .25 W CARBON FILM	ROH - R-25					
0055A					R8						
0056	00002.000	EA		0972946-0045	RES FIX 150 OHM 5 X .25 W CARBON FILM	ROH - R-25					
0056A					R3 R14						
0057	00002.000	EA		0972946-0064	RES FIX 910 OHM 5X .25 W CARBON FILM	ROH - R-25					
0057A					R2 R13						
0058	00004.000	EA		0972946-0038	RES FIX 75.0 OHM 5 X .25 W CARBON FILM	ROH - R-25					
0058A					R4 R5 R15 R16						
0059	00002.000	EA		0972947-0052	RES FIX 300 OHM 5X .5 W CARBON FILM	ROH - R-50					
0059A					R1 R12						
0060	00002.000	EA		0972947-0063	RES FIX 820 OHM 5X .5 W CARBON FILM	ROH - R-50					
0060A					R6 R17						
0061	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 X .25 W CARBON FILM	ROH - R-25					
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-J011											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-5011 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-5011		REV AC	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061A					R18						
0062	00003.000	EA		0972946-0053	RES FIX 330 OHM 5 X .25 W CARBON FILM	ROH - R-25					
0062A					R7 R10 R11						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0011											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-5011 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946076-5012		REV AC	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 X 20 VOLT	QPL -M39003/1-2283					
0047A					C8						
0048	00001.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 X 50 VOLT	QPL -M39003/1-2356					
0048A					C9						
0051	00032.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0051A					C1 C10 C11 C12 C14 C17 C18						
0051B					C21 THRU C32 C36 C37 C38						
0051C					C57 THRU C66						
0055	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 X .25 W CARBON FILM	ROH - R-25					
0055A					R8						
0056	00001.000	EA		0972946-0045	RES FIX 150 OHM 5 X .25 W CARBON FILM	ROH - R-25					
0056A					R3						
0057	00001.000	EA		0972946-0064	RES FIX 910 OHM 5X .25 W CARBON FILM	ROH - R-25					
0057A					R2						
0058	00002.000	EA		0972946-0038	RES FIX 75.0 OHM 5 X .25 W CARBON FILM	ROH - R-25					
0058A					R4 R5						
0059	00001.000	EA		0972947-0052	RES FIX 300 OHM 5X .5 W CARBON FILM	ROH - R-50					
0059A					R1						
0060	00001.000	EA		0972947-0063	RES FIX 820 OHM 5X .5 W CARBON FILM	ROH - R-50					
0060A					R6						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0012											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-5012 AC											

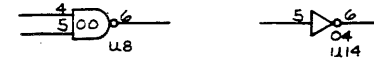
TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946076-5012		REV AC	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 X .25 W CARBON FILM	ROH - R-25					
0061A					R18						
0062	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 X .25 W CARBON FILM	ROH - R-25					
0062A					R7						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 946076-0012											
APP'D MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0946076-5012 AC											

**TABLE I
COMPONENT SUBSTITUTION**

COMPONENT	PERMITTED LOCATION(S)	ALLOWED SUBSTITUTE	SUBSTITUTE PART NUMBER
SN74LS32N	U29, U88, U90	SN7432N	222222-7432
SN74LS42N	U41	SN7442N	222222-7162
SN74LS43N	U41, U53, U60, U61, U63	SN7443N	222222-7163
SN74LS166N	U34, U104	SN74166N	222222-7166
SN74LS169N	U45, U46, U75, U76	SN74S169N	996305-0001
SN74LS373N	U36, U106	SN74S373N	996307-0001
SN74LS393N	U58, U68	SN74393N	996035-0002

NOTES: UNLESS OTHERWISE SPECIFIED

- ALL DEVICE TYPES ARE PREFIXED WITH SN74.
- GROUND IS APPLIED TO PIN 7 OF ALL 14 PIN IC'S AND PIN 8 OF ALL 16 PIN IC'S.
- VCC IS APPLIED TO PIN 14 OF ALL 14 PIN IC'S AND PIN 16 OF ALL 16 PIN IC'S.
- DEVICE TYPE, PIN NUMBERS AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



00 AND 04 = DEVICE TYPE
4, 5, AND 6 = PIN NUMBERS
U8 AND U14 = REFERENCE DESIGNATOR

- ** = SIGNAL PRESENT IN DUAL-CONTROLLER ONLY.
- *** = COMPONENT PRESENT IN DUAL CONTROLLER ONLY.
- **** = NOT PRESENT IN DUAL, 960 CHARACTER DISPLAY.
- ***** = NOT PRESENT IN DUAL OR SINGLE 960 CHARACTER DISPLAY.

9. MNEMONIC CONVENTIONS:
SUFFIXES: Q = F/F OR INVERTED F/F OUTPUT
L = COMBINATORIAL LOGIC OUTPUT
* = 2ND CONTROLLER SIGNAL IDENTICAL IN FUNCTION TO SIGNAL IN PRIMARY CONTROLLER LOGIC
P = PULSE OUTPUT (ENABLED BY STORECLOCK)
T = THREE-STATE OR WIRE-OR'ED OUTPUT

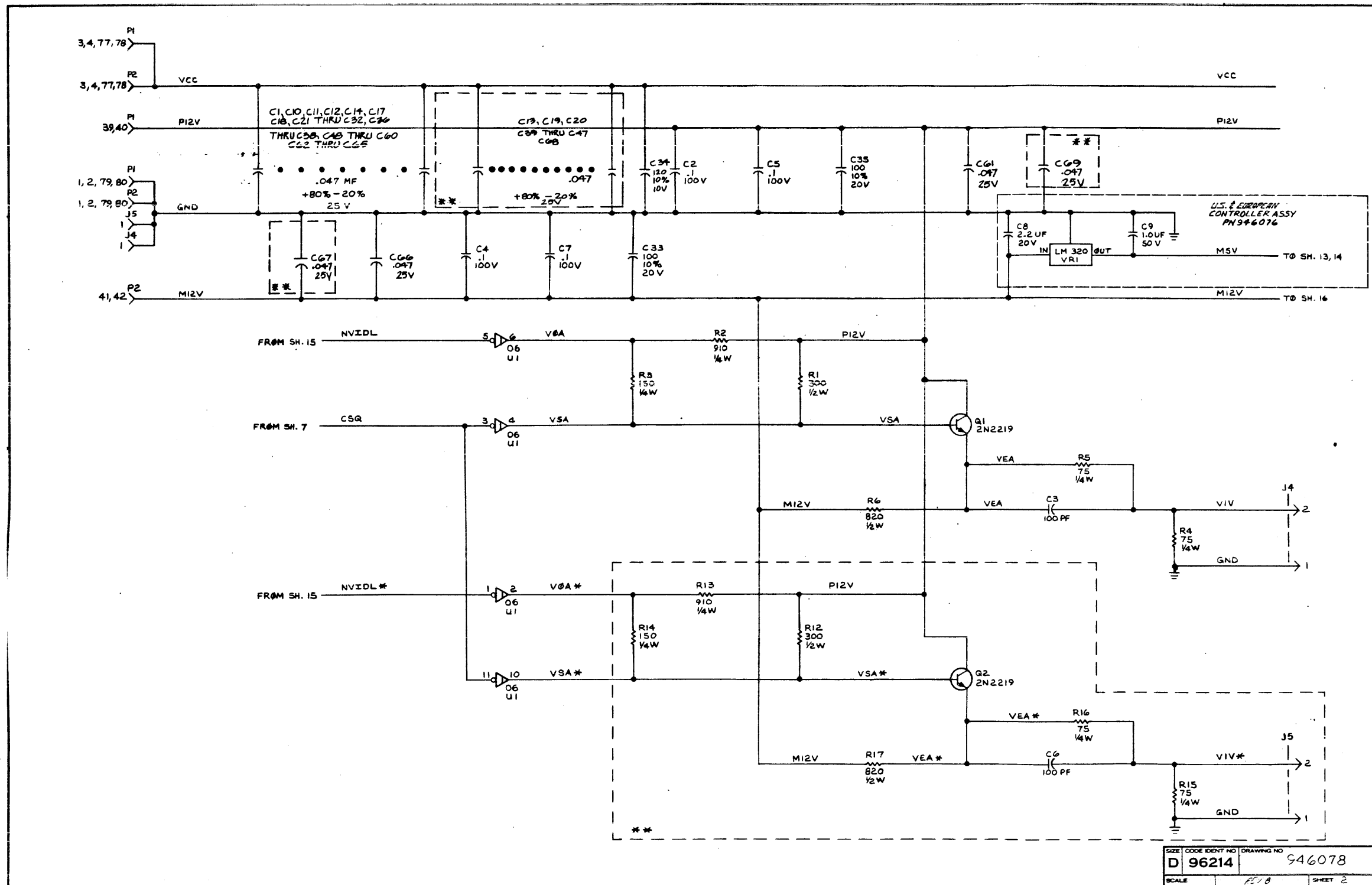
PREFIXES: KB = KEYBOARD LOGIC
CR = COMMUNICATIONS REGISTER I/F
M = MEMORY LOGIC
A = ALARM
B = BUILT-IN-TEST
N = INVERTED OUTPUT

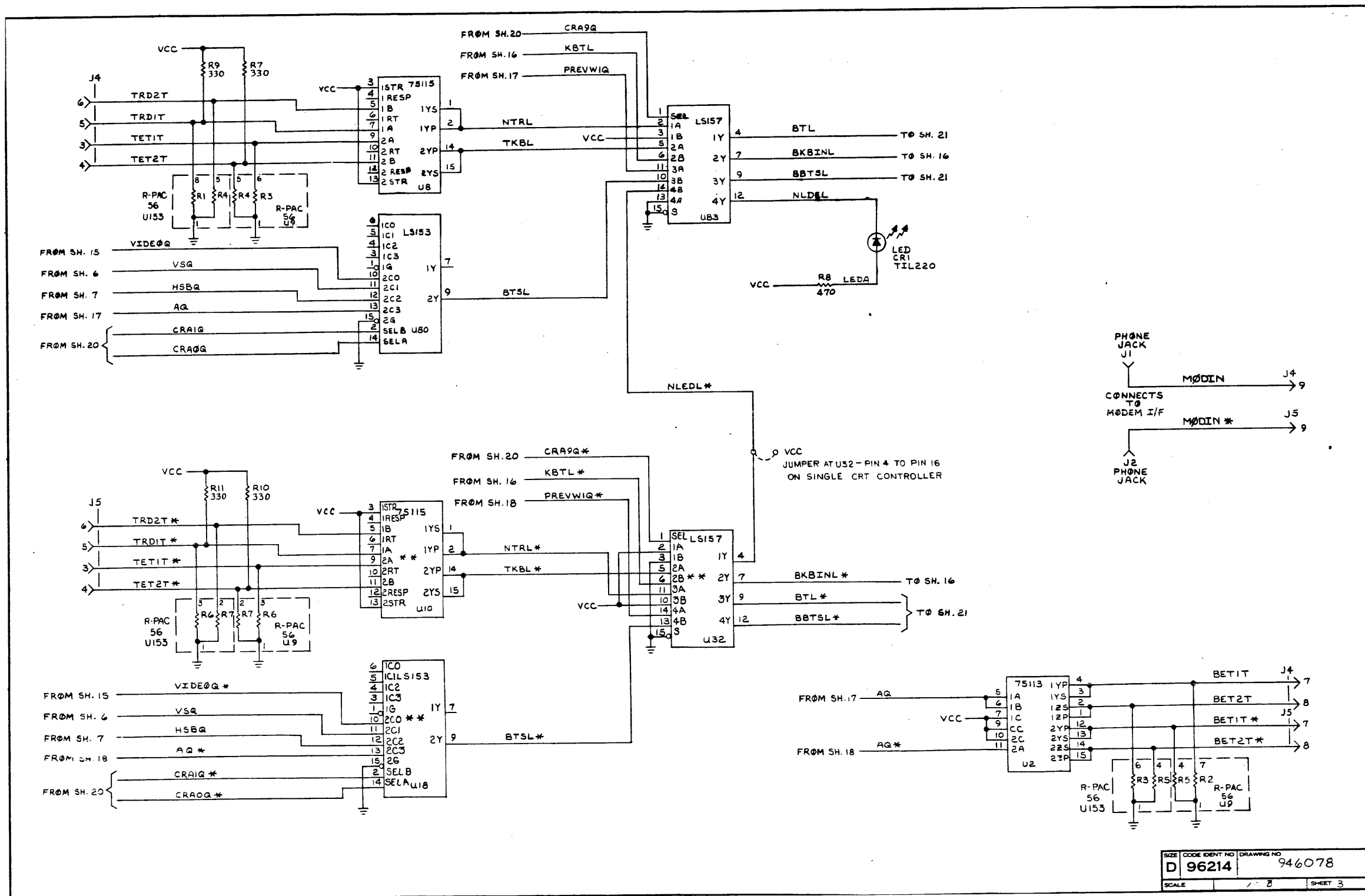
- COMPONENT SUBSTITUTION, AS SHOWN IN TABLE I, IS ALLOWED

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	CN 42074(C) R. Pappas (1) ADDED SH 22	8-22-77	[Signature]
	B	CN 428269 (C) C. Ryan	8-22-78	[Signature]
	C	CN 423353 (E) NELLE R.	7-31-79	[Signature]
	D	CN 447017 (D) [Signature]	9-20-80	[Signature]

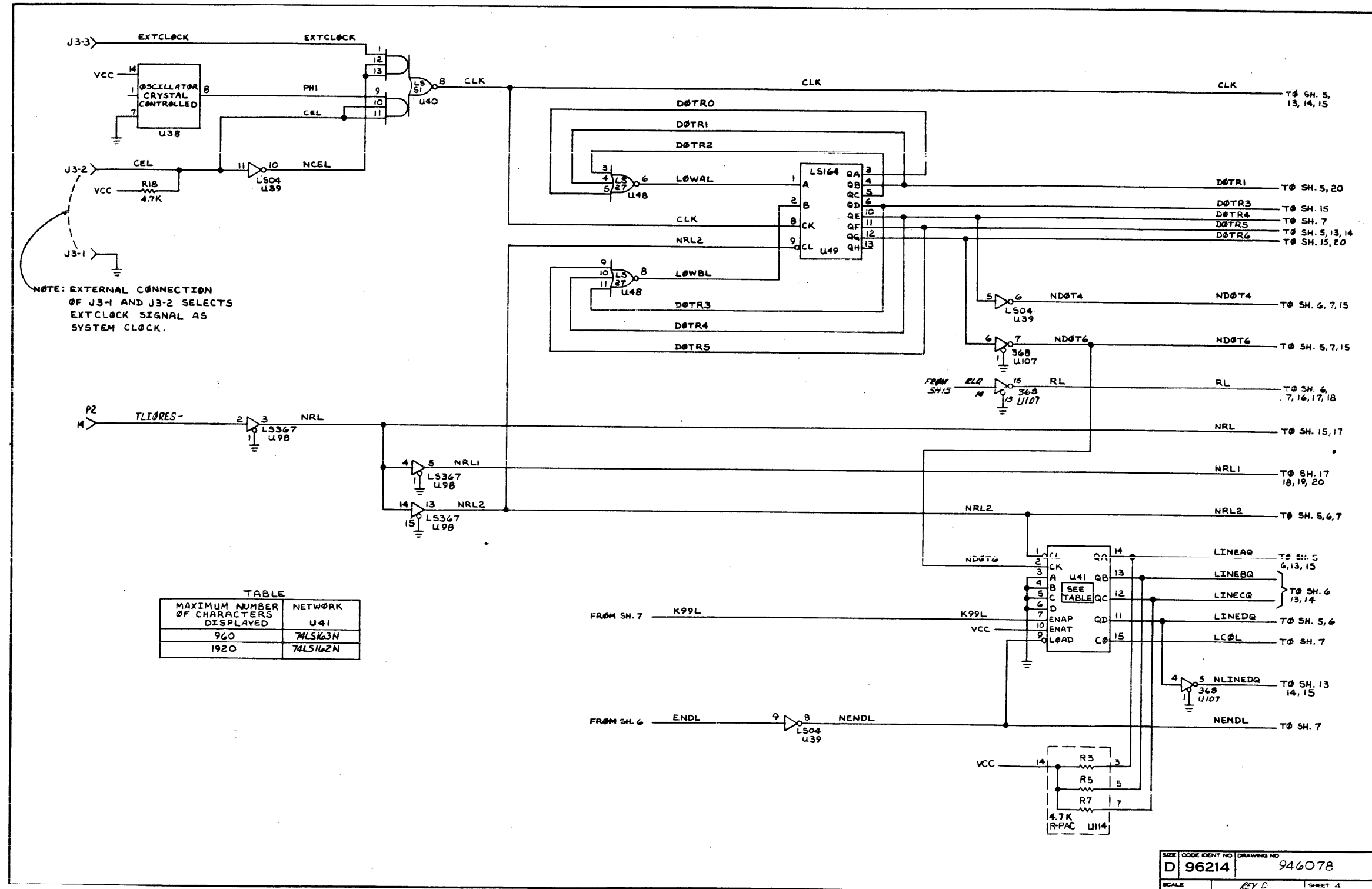
REVISION	D	B	B	D	D	D	B	E	A	D	D	B	A	B	O	C	A	B				
STATUS OF SHEETS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

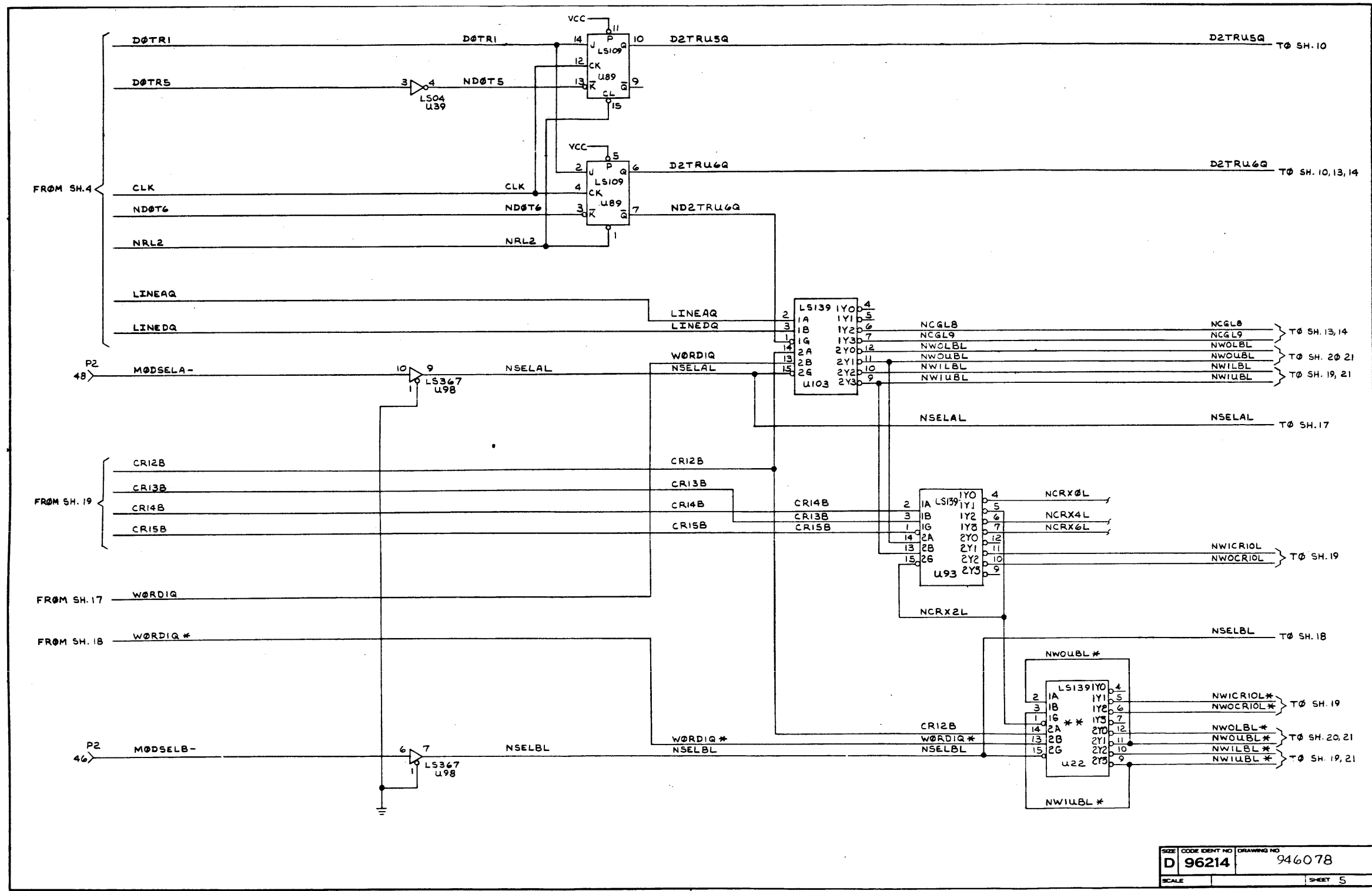
QTY REQD	-2	-1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PRELIMINARY SPECIFICATION
PARTS LIST							
UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED			
REMOVE ALL BURRS AND SHARP EDGES				DIMENSIONS ARE IN INCHES			
CONCENTRICITY MACHINED DIAMETERS .010 FIB				TOLERANCES			
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING				ANGLES 21			
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY				3 PLACE DECIMALS = .010			
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100				2 PLACE DECIMALS = .02			
HOLE TOLERANCE				MATERIAL			
.013 + .004 THRU .125 - .001				22-490 2049			
.125 + .004 THRU .250 - .001				22-76 516			
.250 + .008 THRU .500 - .001				NEXT ASSY USED ON			
.500 + .008 THRU 1.000 - .001				APPLICATION			
				DWN G. LENTZ 12-10-76			
				CHK KELLER 12-13-76			
				ENGR L. Johnson 1-5-77			
				QA [Signature] 1-5-77			
				APVD [Signature] 1-5-77			
				CONTR NO			
				DESIGN ACTIVITY RELEASE [Signature] 1-5-77			
				SCALE: 1:1			
				SIZE CODE IDENT NO DRAWING NO			
				D 96214 546078			
				SHEET 1 OF 22			



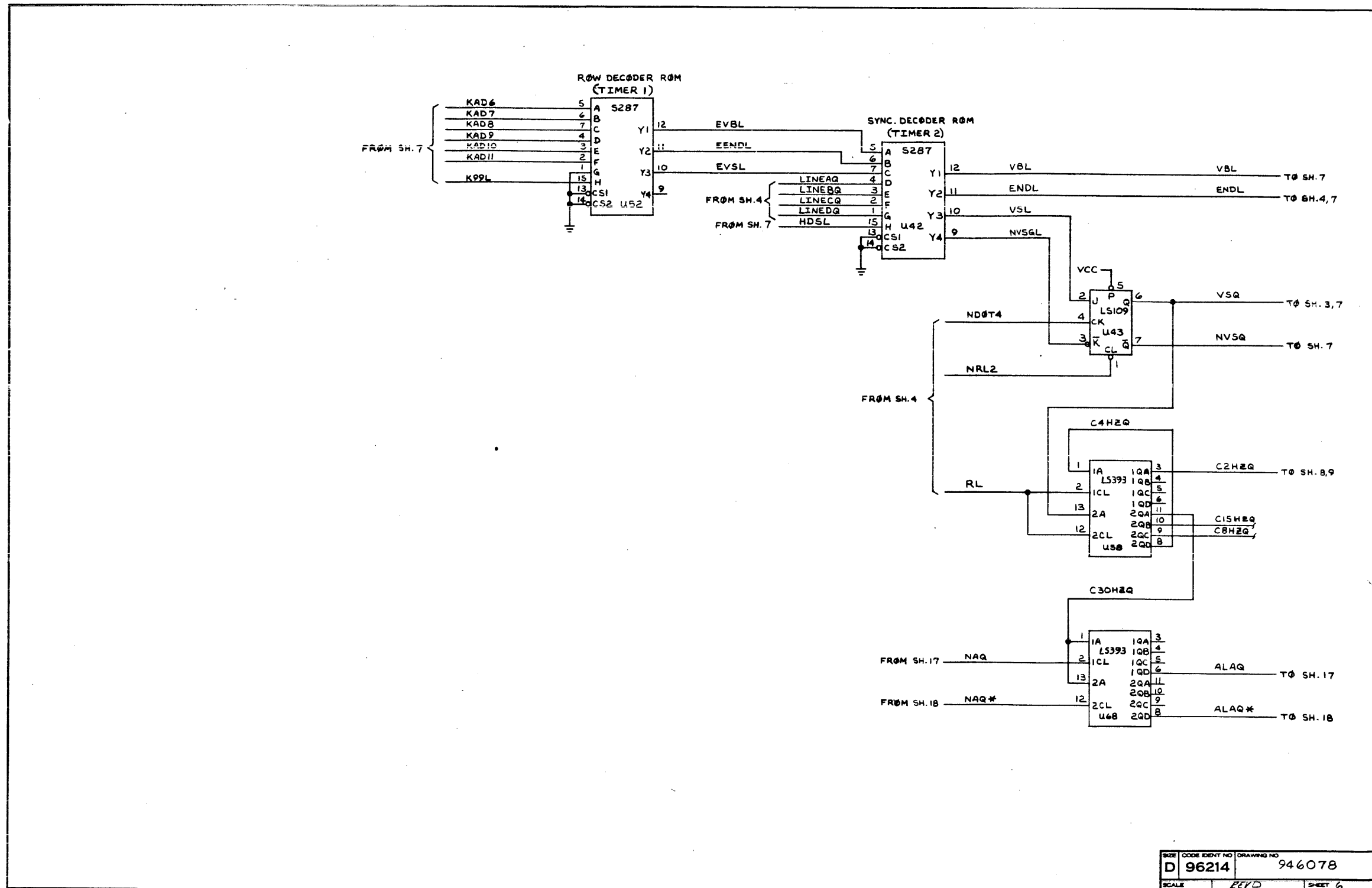


SIZE	CODE IDENT NO	DRAWING NO
D	96214	946078
SCALE	1/8	SHEET 3

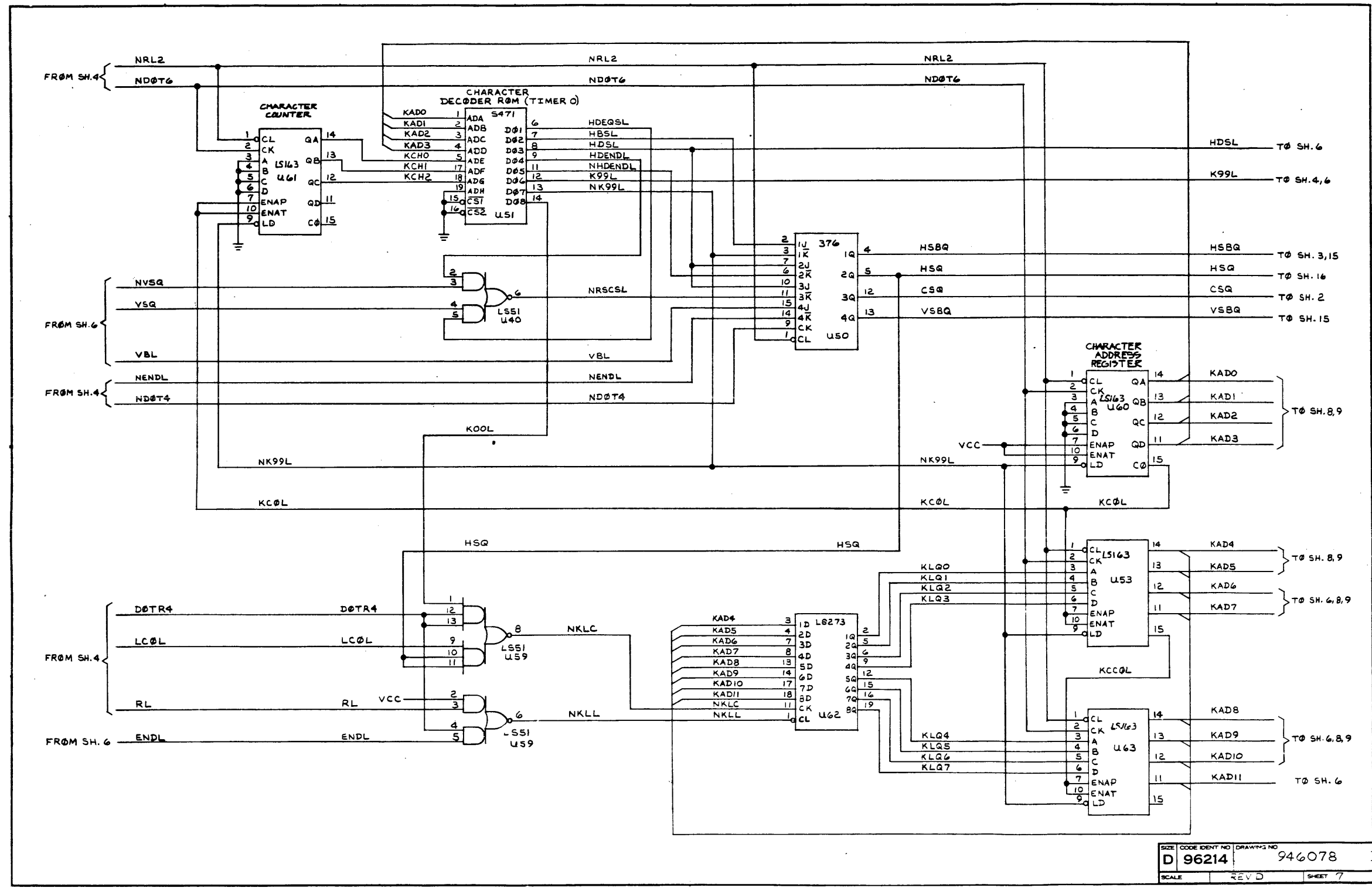




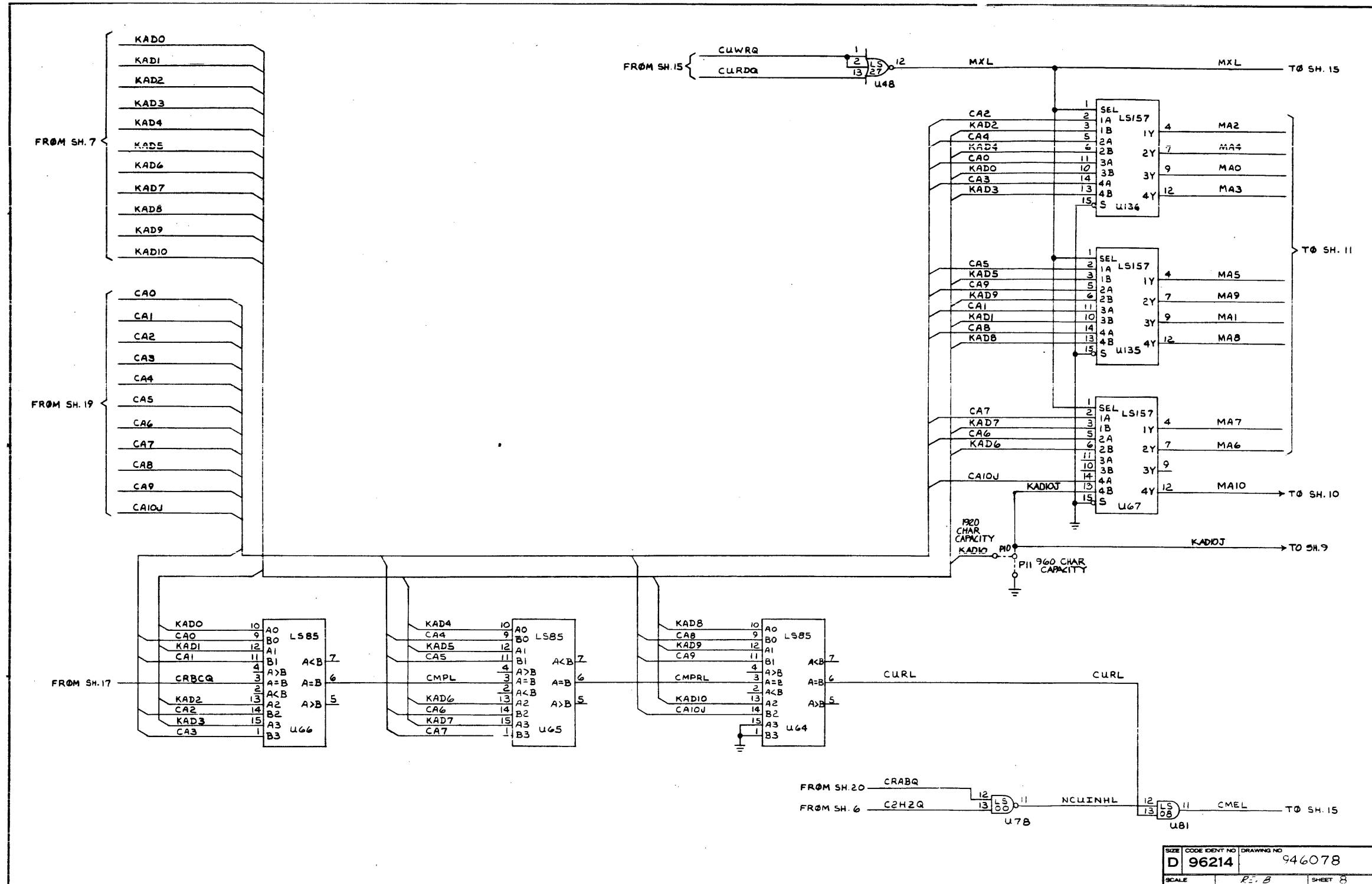
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946078
SCALE	SHEET 5	



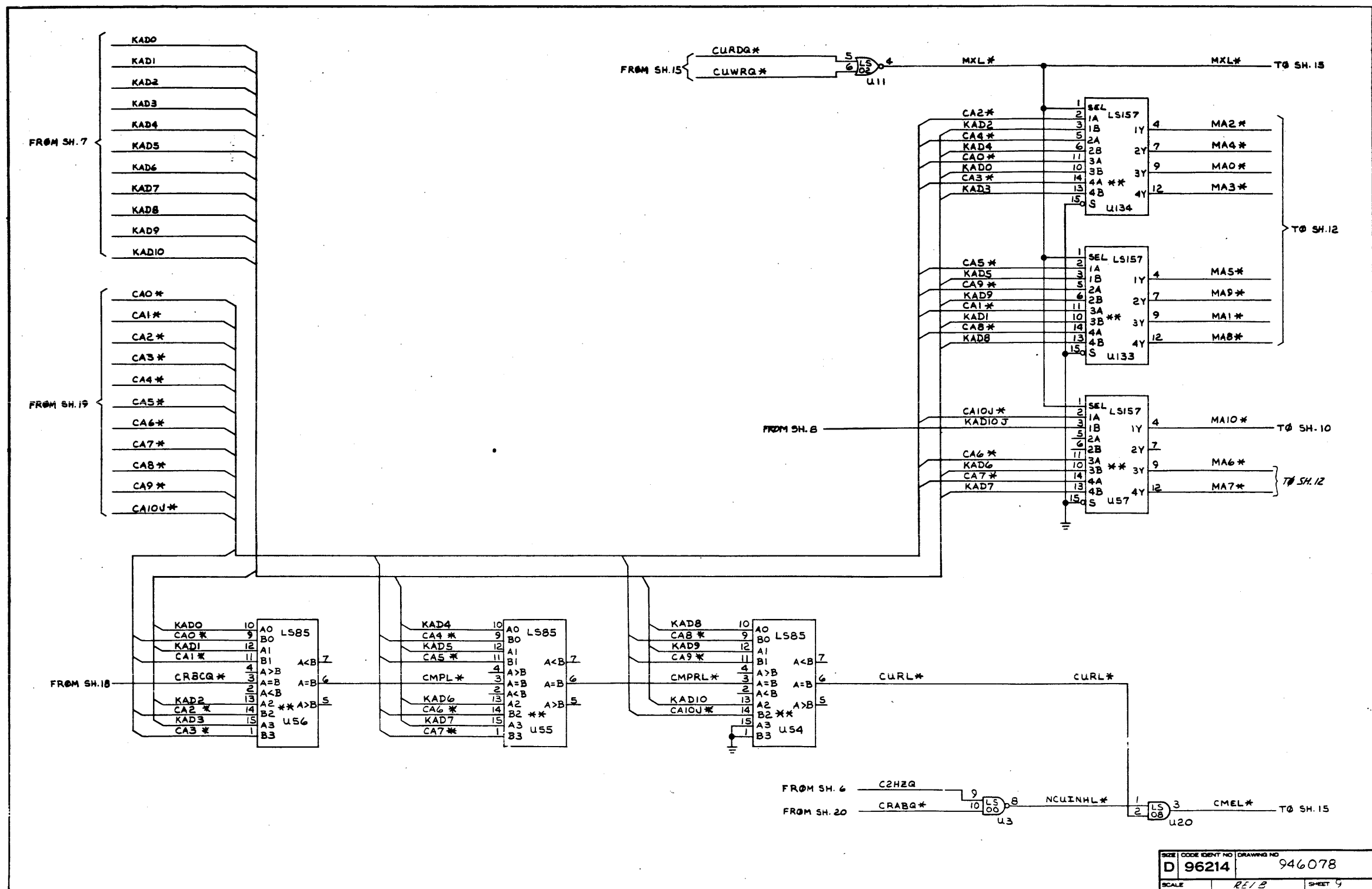
SIZE	CODE EVENT NO	DRAWING NO
D	96214	946078
SCALE	REV D	SHEET 6



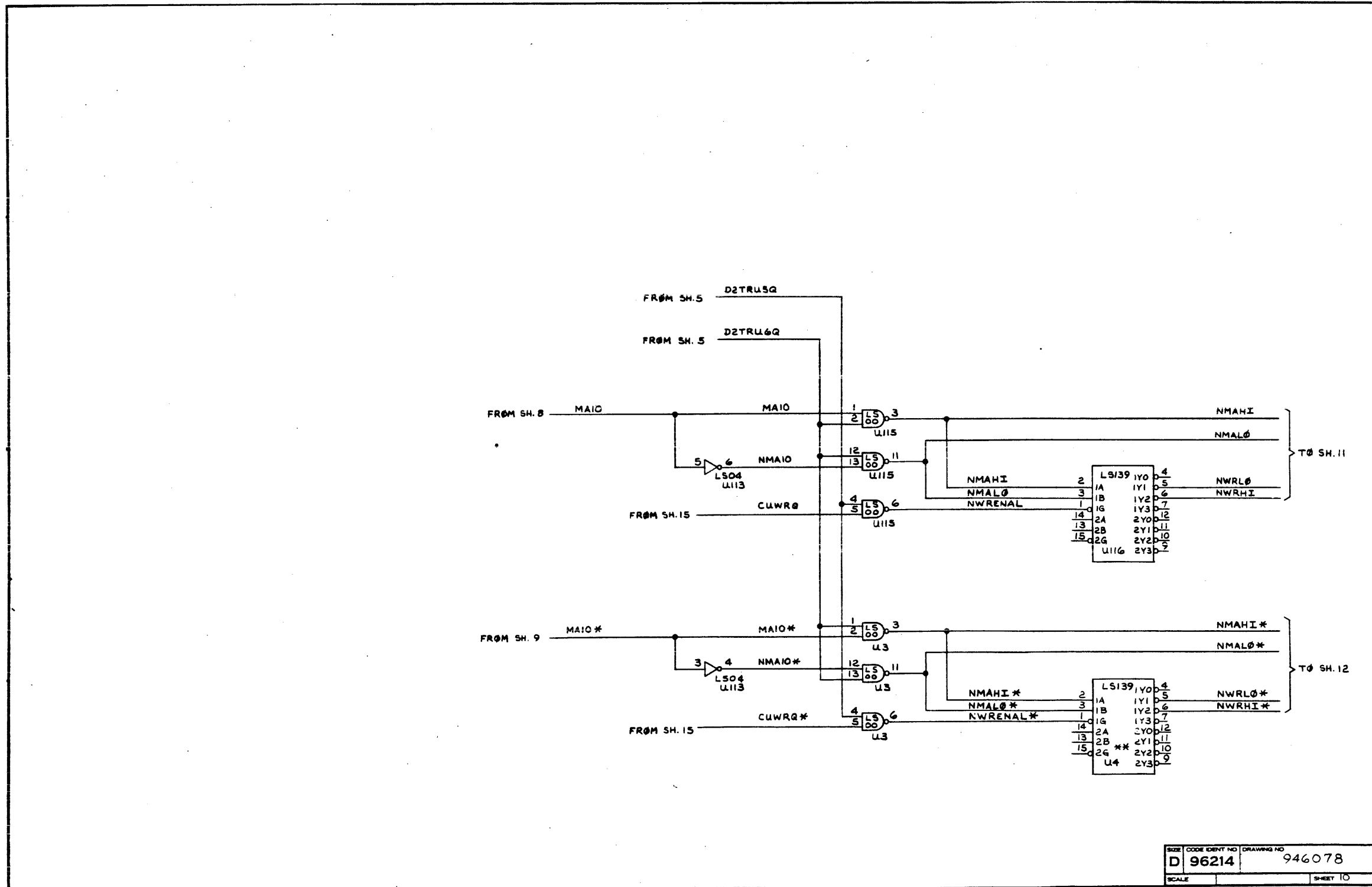
SIZE: CODE IDENT NO: DRAWING NO: 946078
 D 96214
 SCALE: REV D SHEET 7



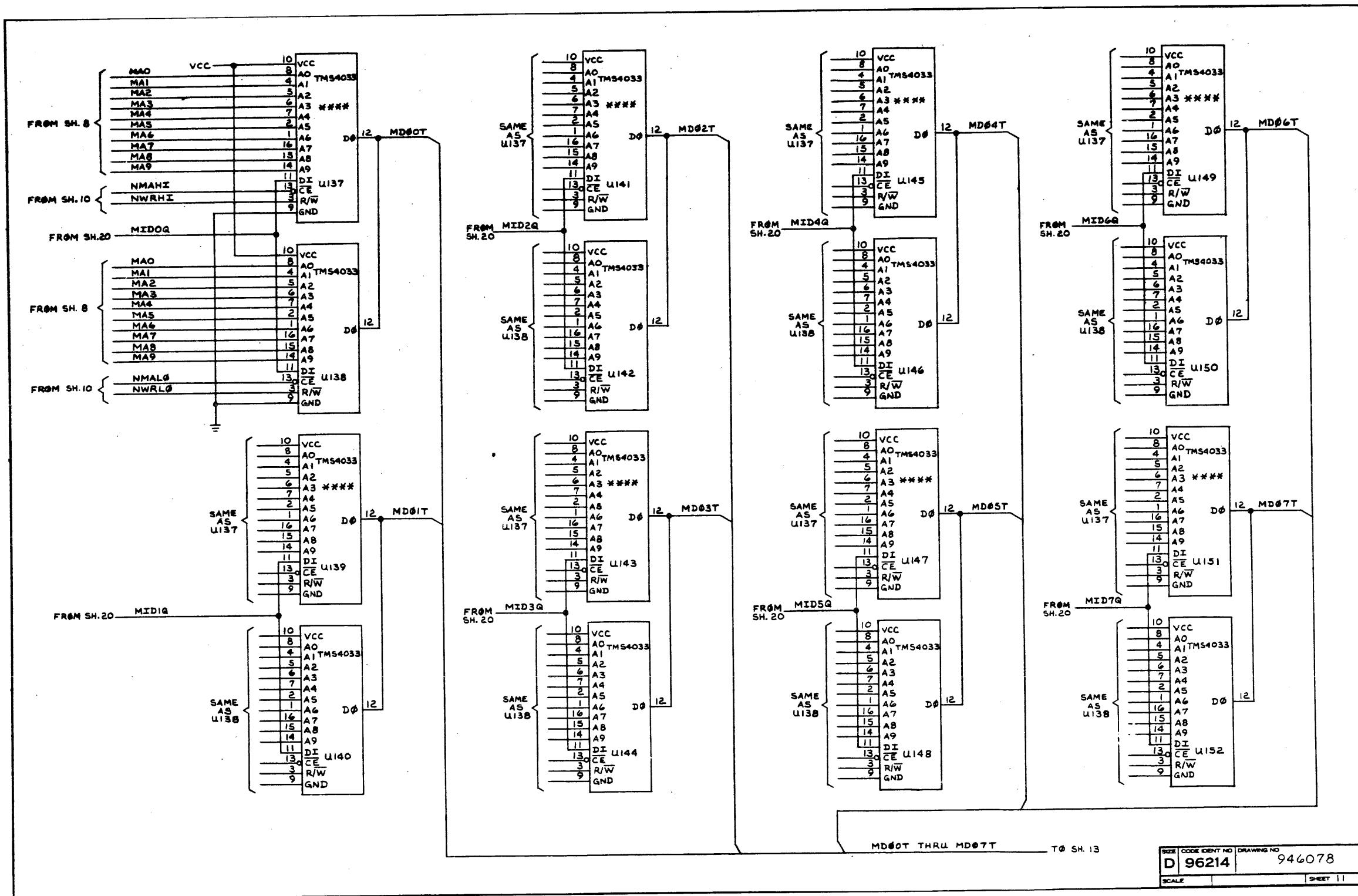
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946078
SCALE	REV. B	SHEET 8

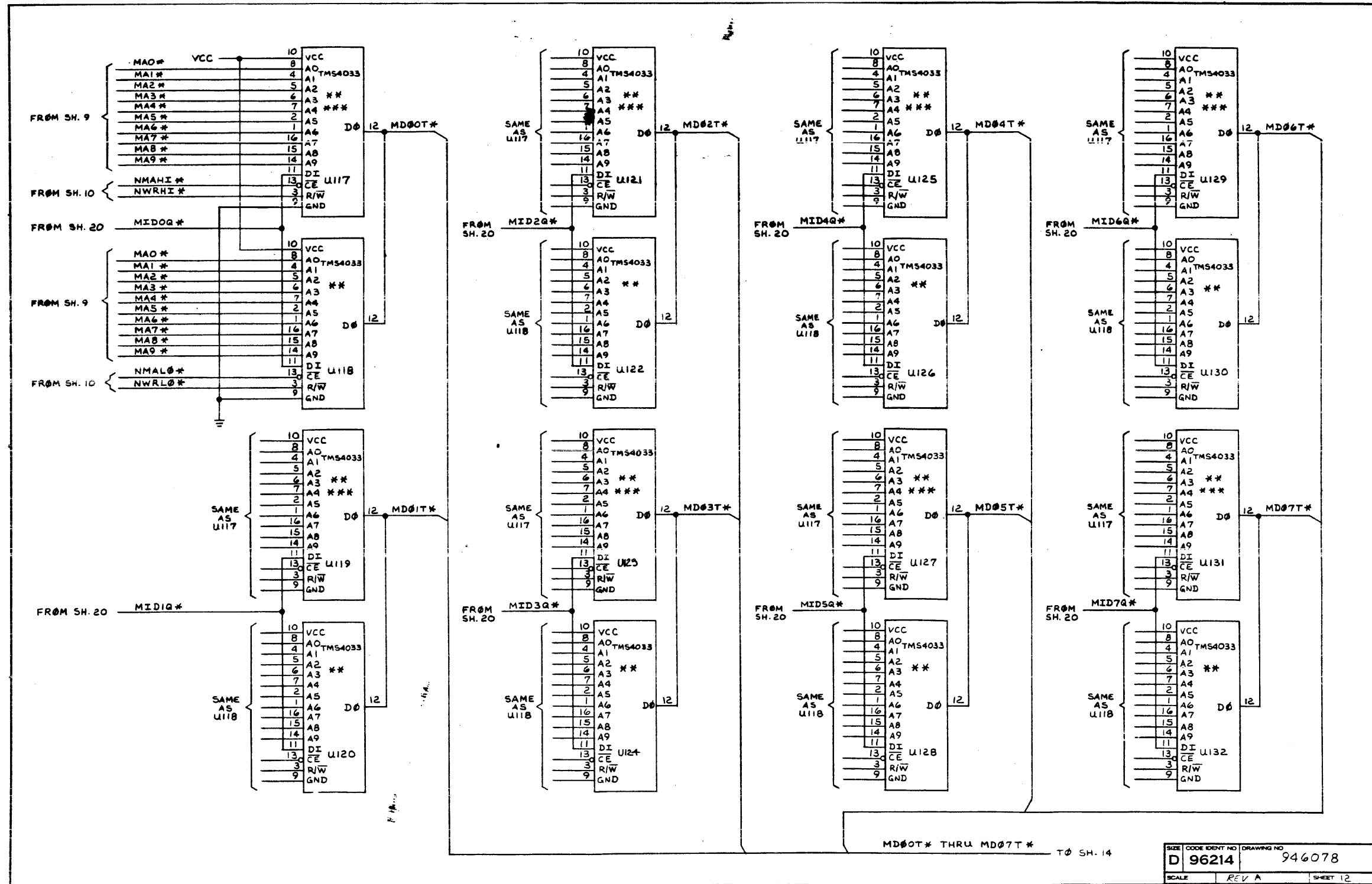


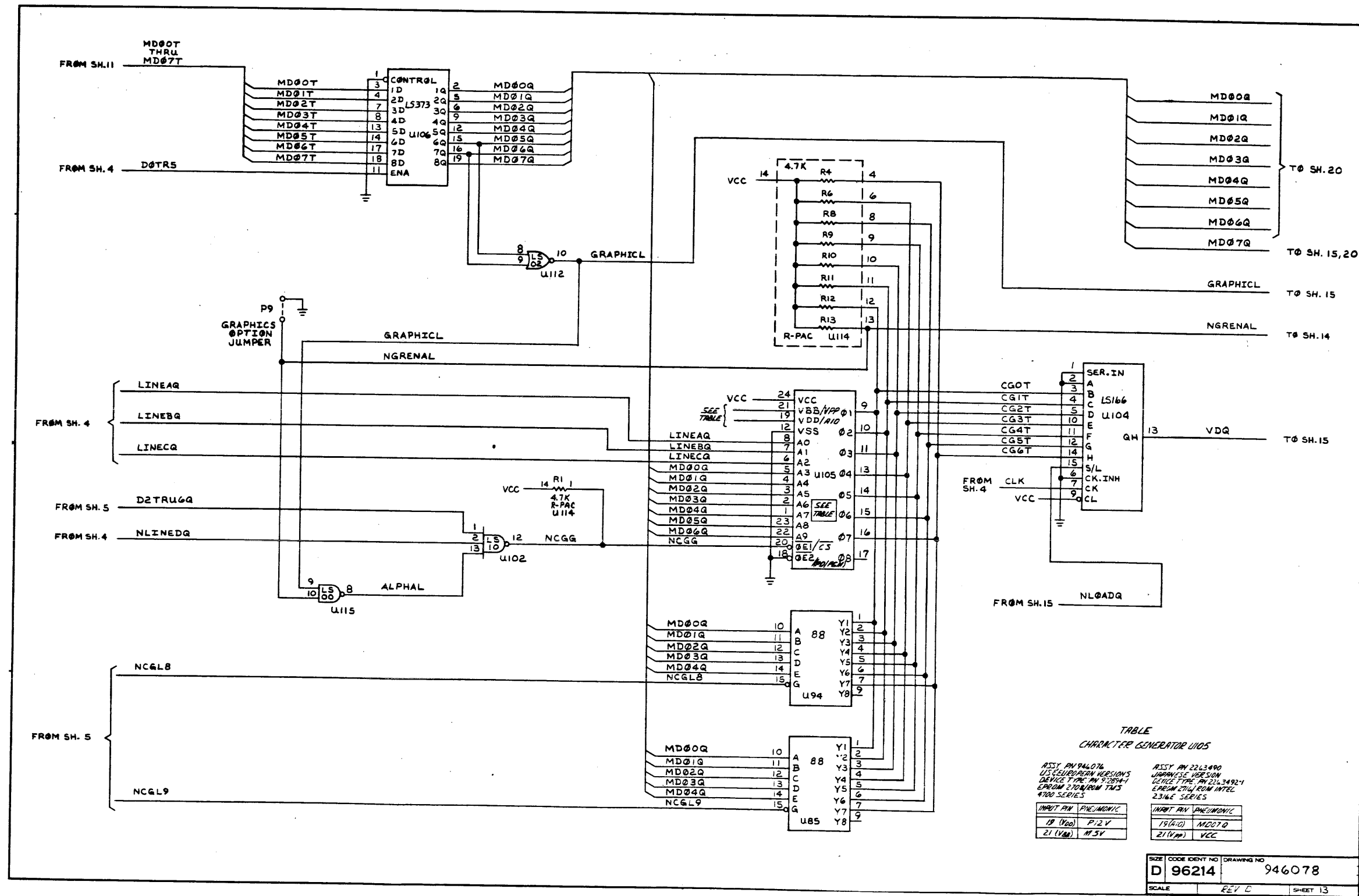
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946078
SCALE	REL B	SHEET 5



SIZE	CODE IDENT NO	DRAWING NO
D	96214	946078
SCALE		SHEET 10







Video Display Unit Controller Logic Diagram

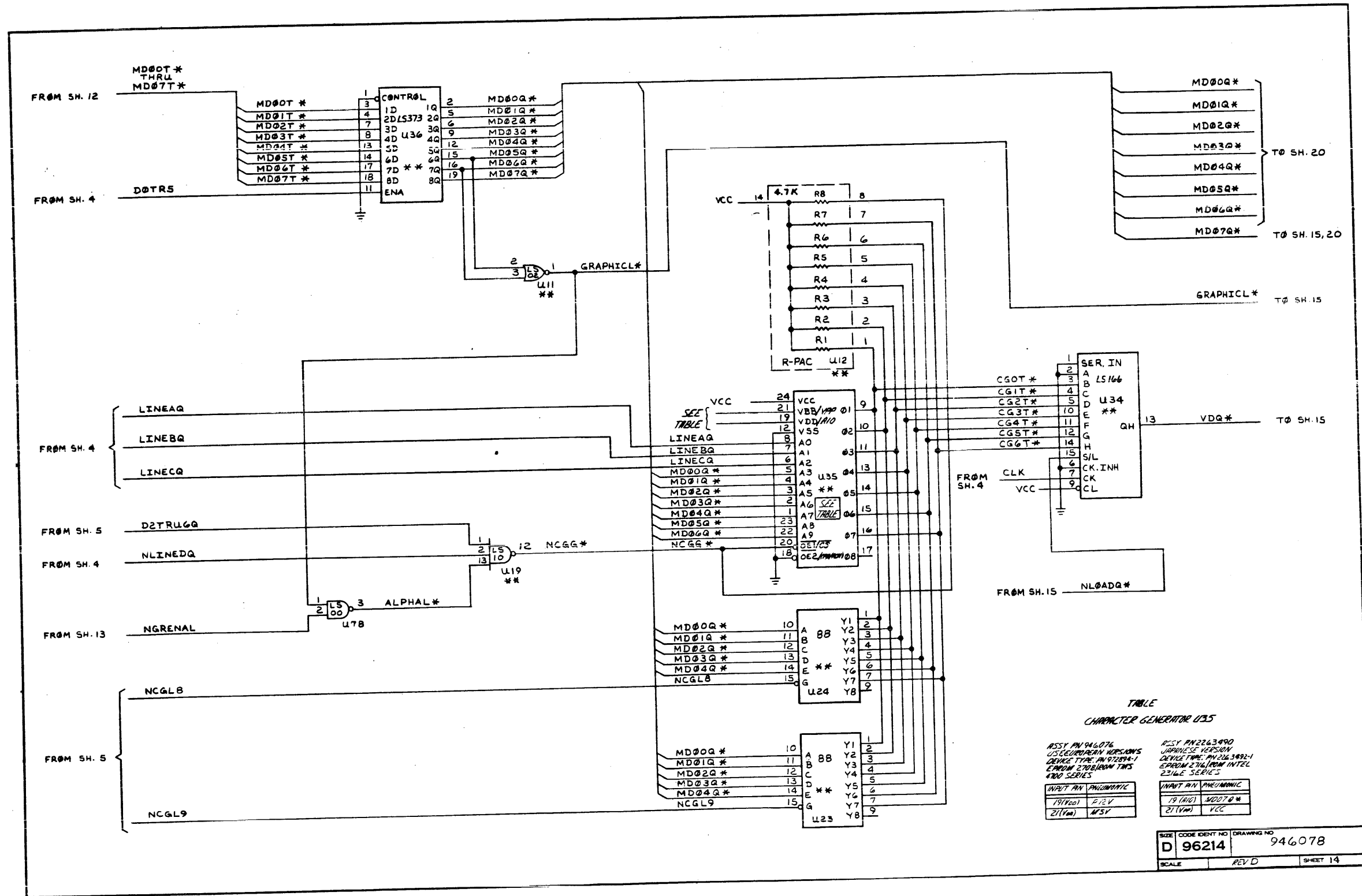
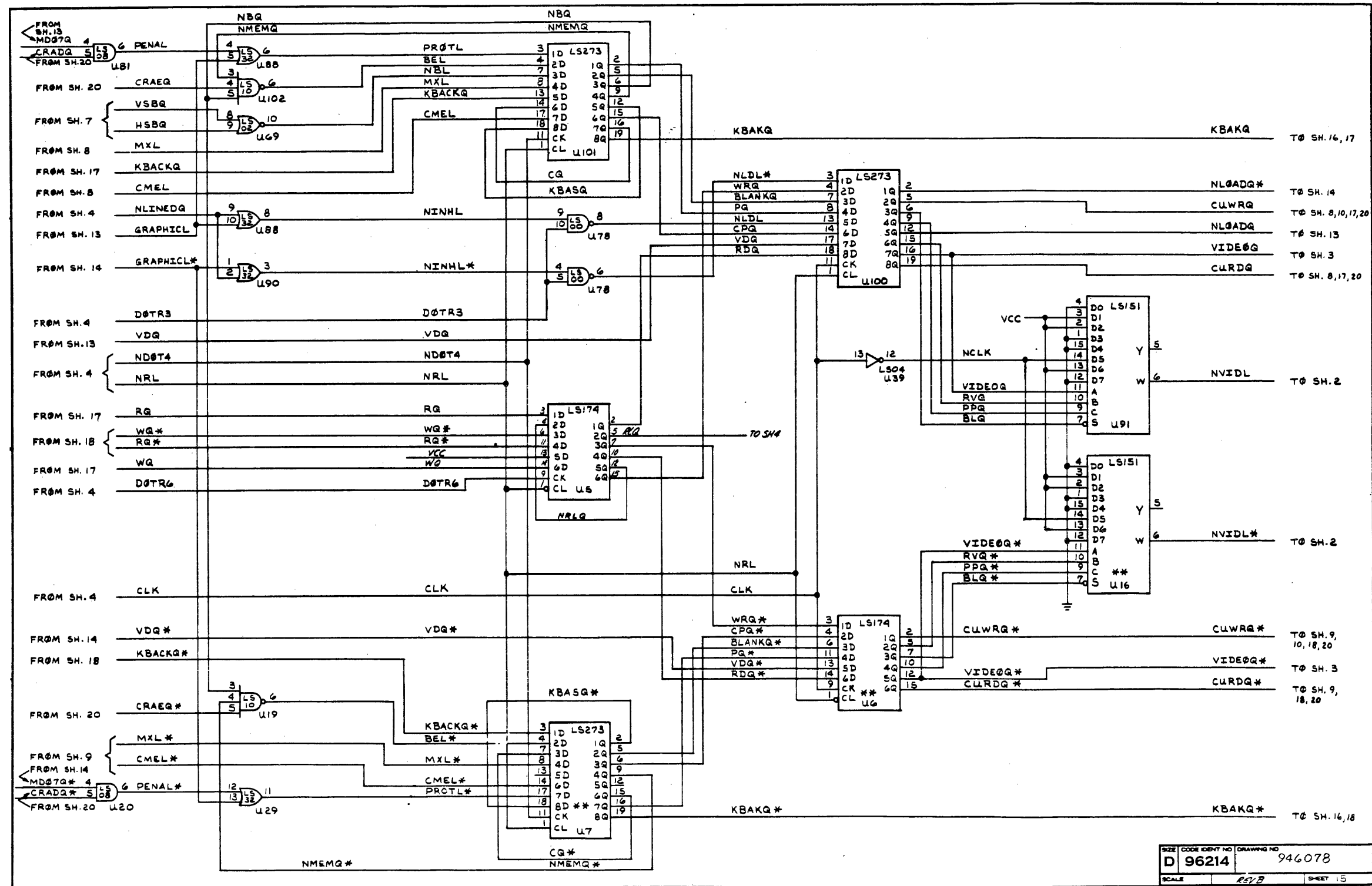


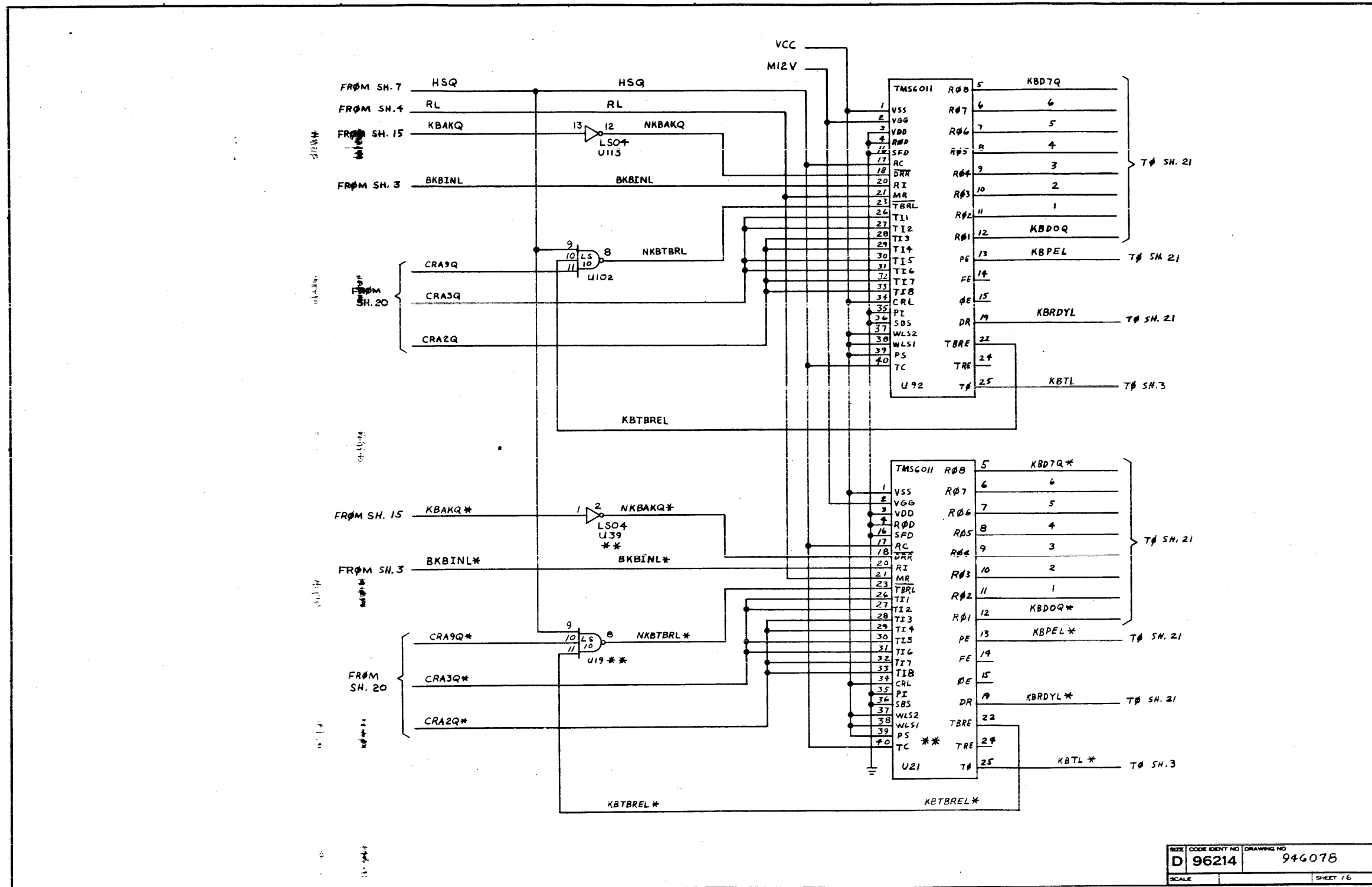
TABLE
CHARACTER GENERATOR U35

ASSY PN 946076 U35EQUIVALENT VERSIONS DEVICE TYPE: PN 97289-1 EPROM 2708/2716/2732 4700 SERIES	ASSY PN 2263990 JAPANESE VERSION DEVICE TYPE: PN 2263992-1 EPROM 2708/2716/2732 2316C SERIES
INPUT PIN PNEUMONIC 19(Vcc) 2(V) 21(Vin) NSV	INPUT PIN PNEUMONIC 19(Vcc) MD07Q* 21(Vin) VCC

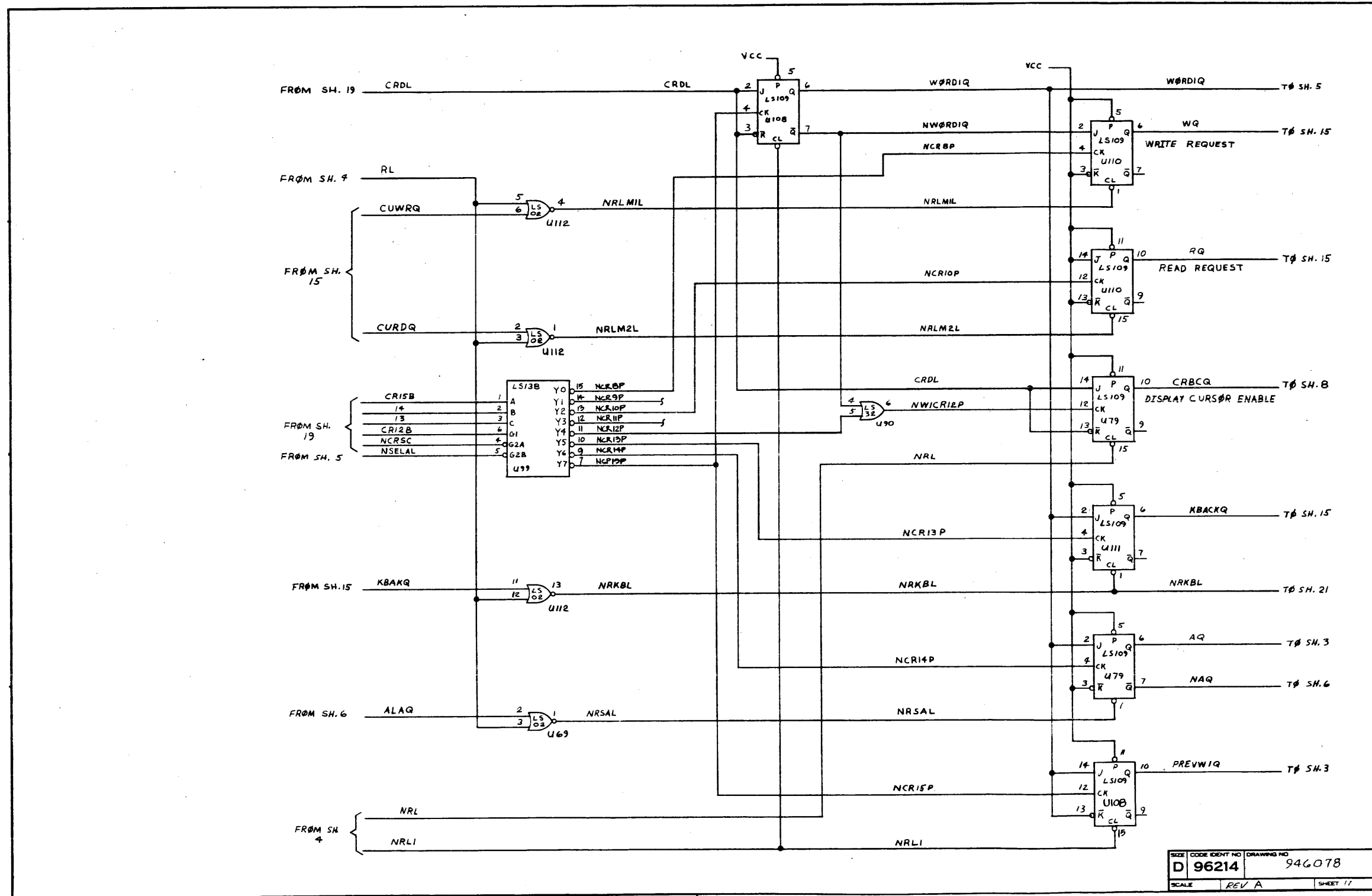
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946078
SCALE	REV D	SHEET 14

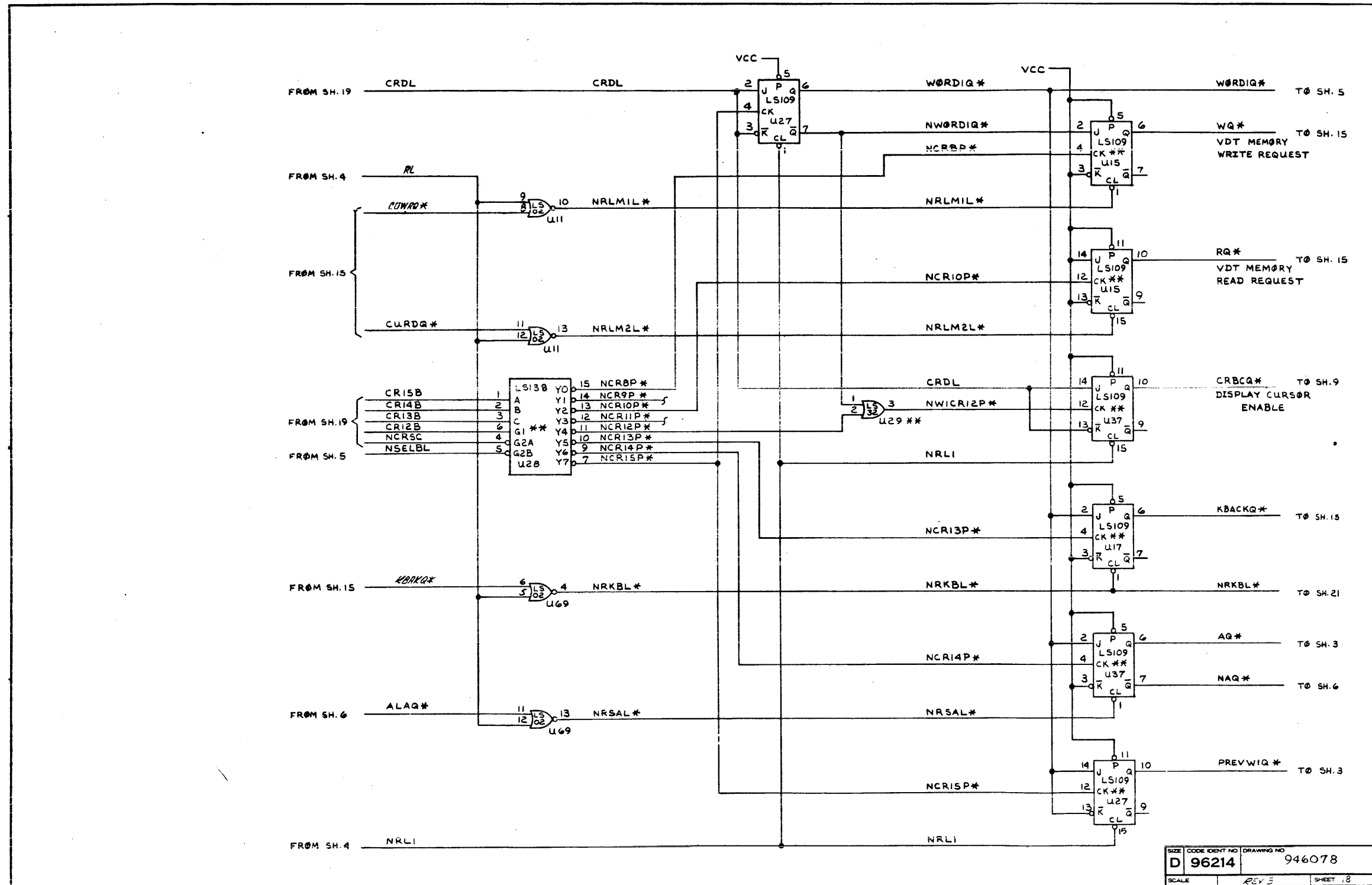


SIZE	CODE IDENT NO	DRAWING NO
D	96214	946078
SCALE	REV B	SHEET 15

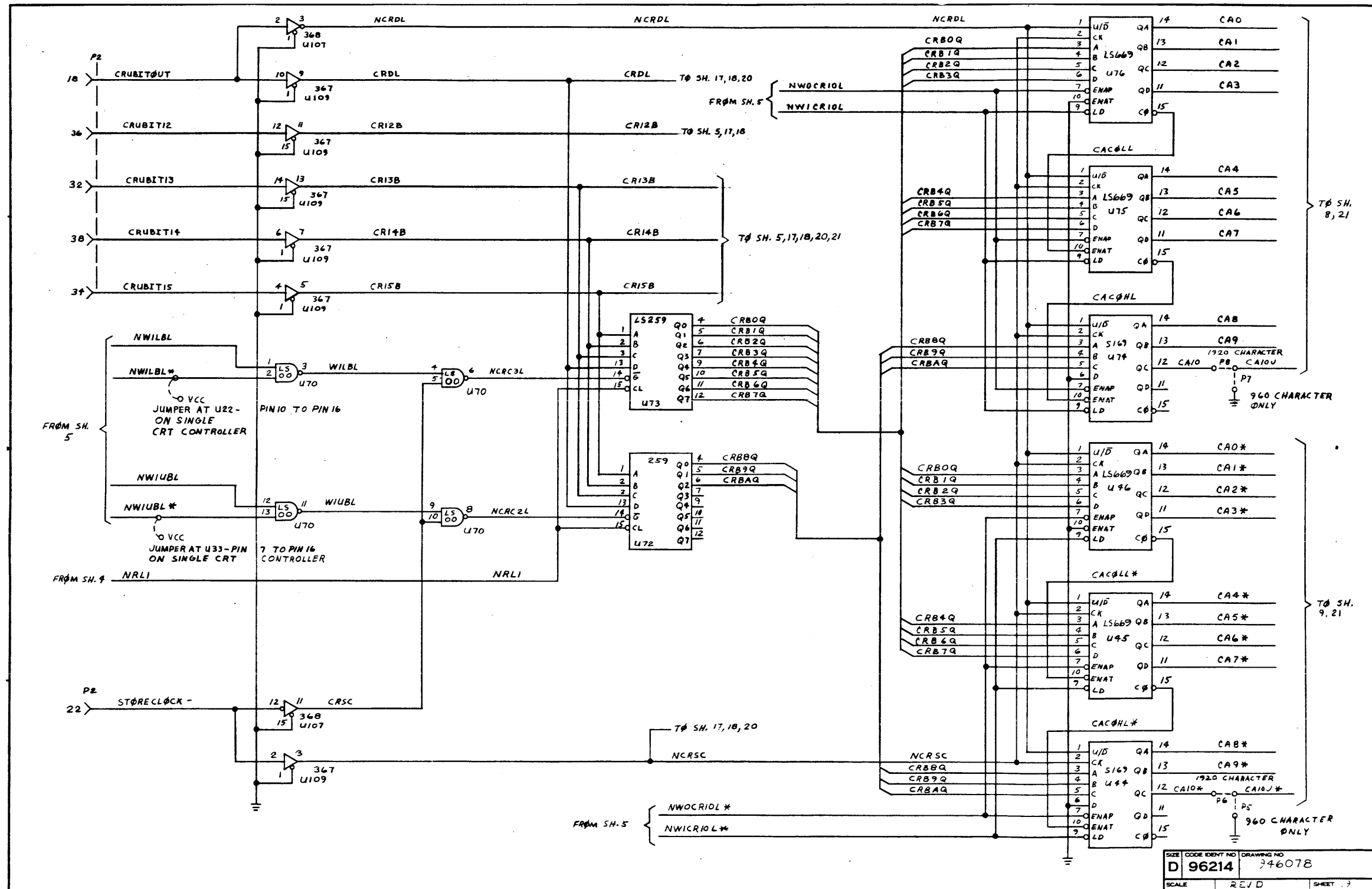


SIZE	CODE	IDENT. NO.	DRAWING NO.
D	96214		946078
SCALE			SHEET 16

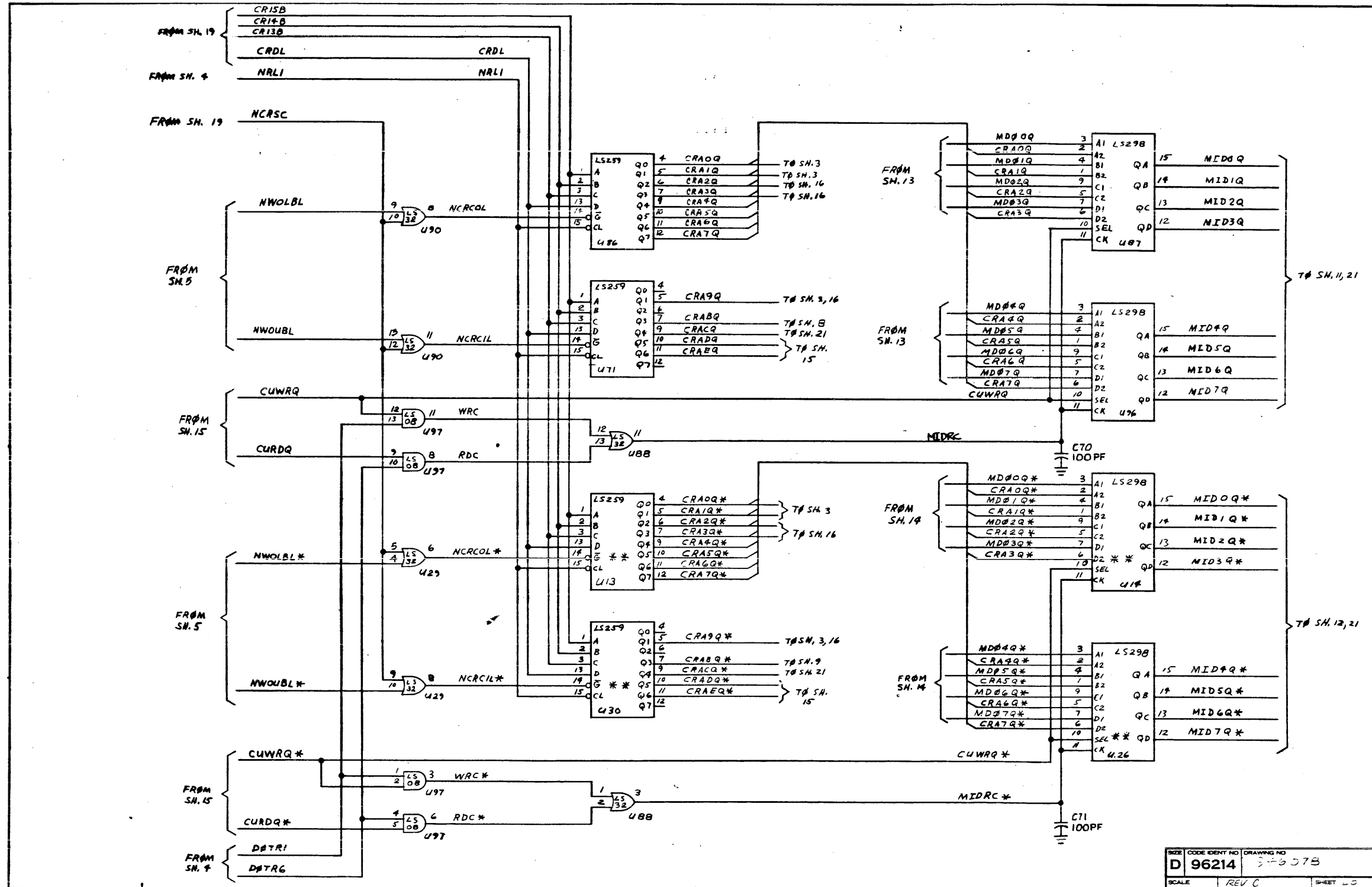




SIZE	CODE IDENT NO	DRAWING NO
D	96214	946078
SCALE	REV 3	SHEET 18

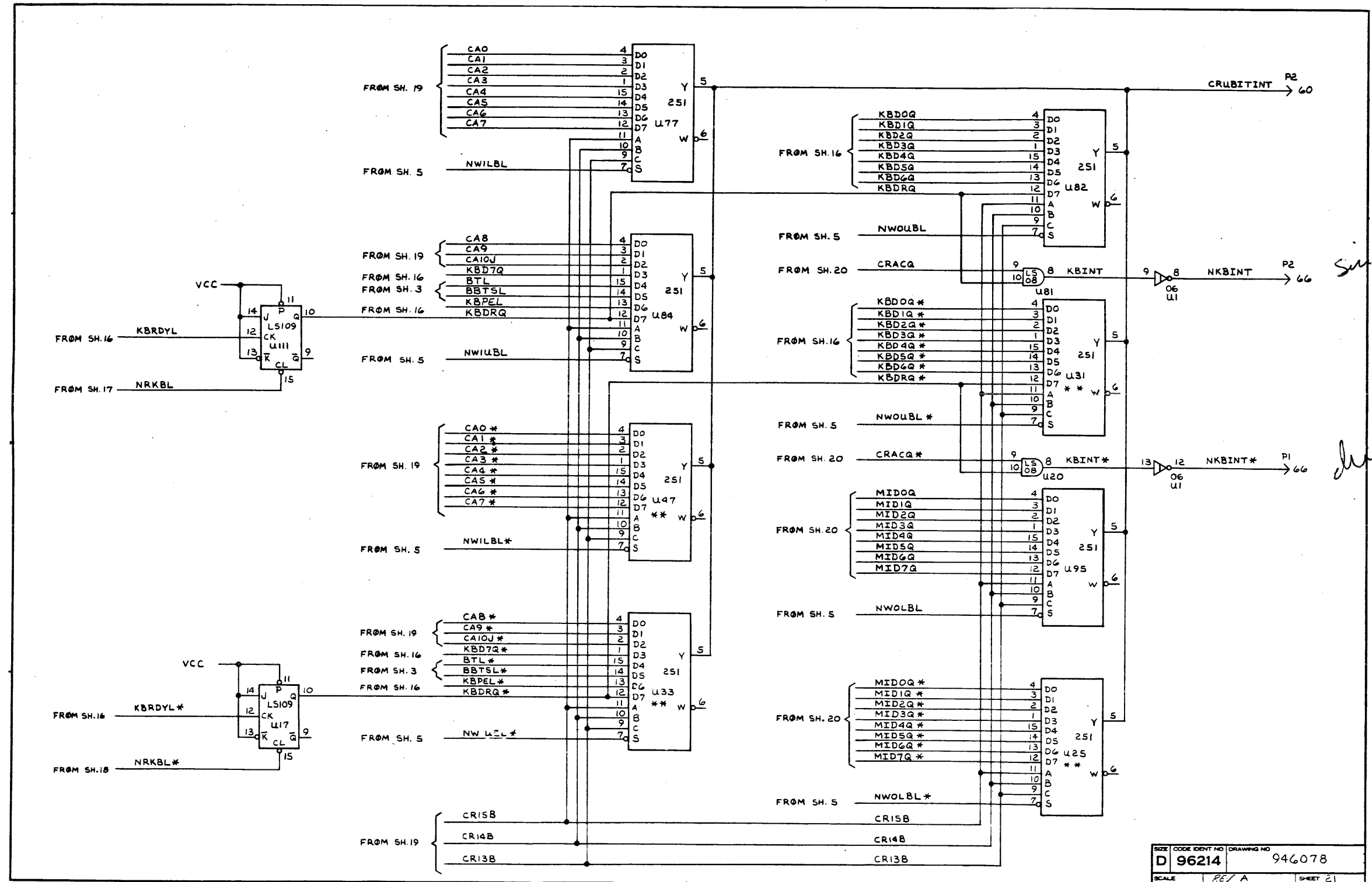


SIZE	CODE IDENT NO	DRAWING NO
D	96214	746078
SCALE	REV D	SHEET 3



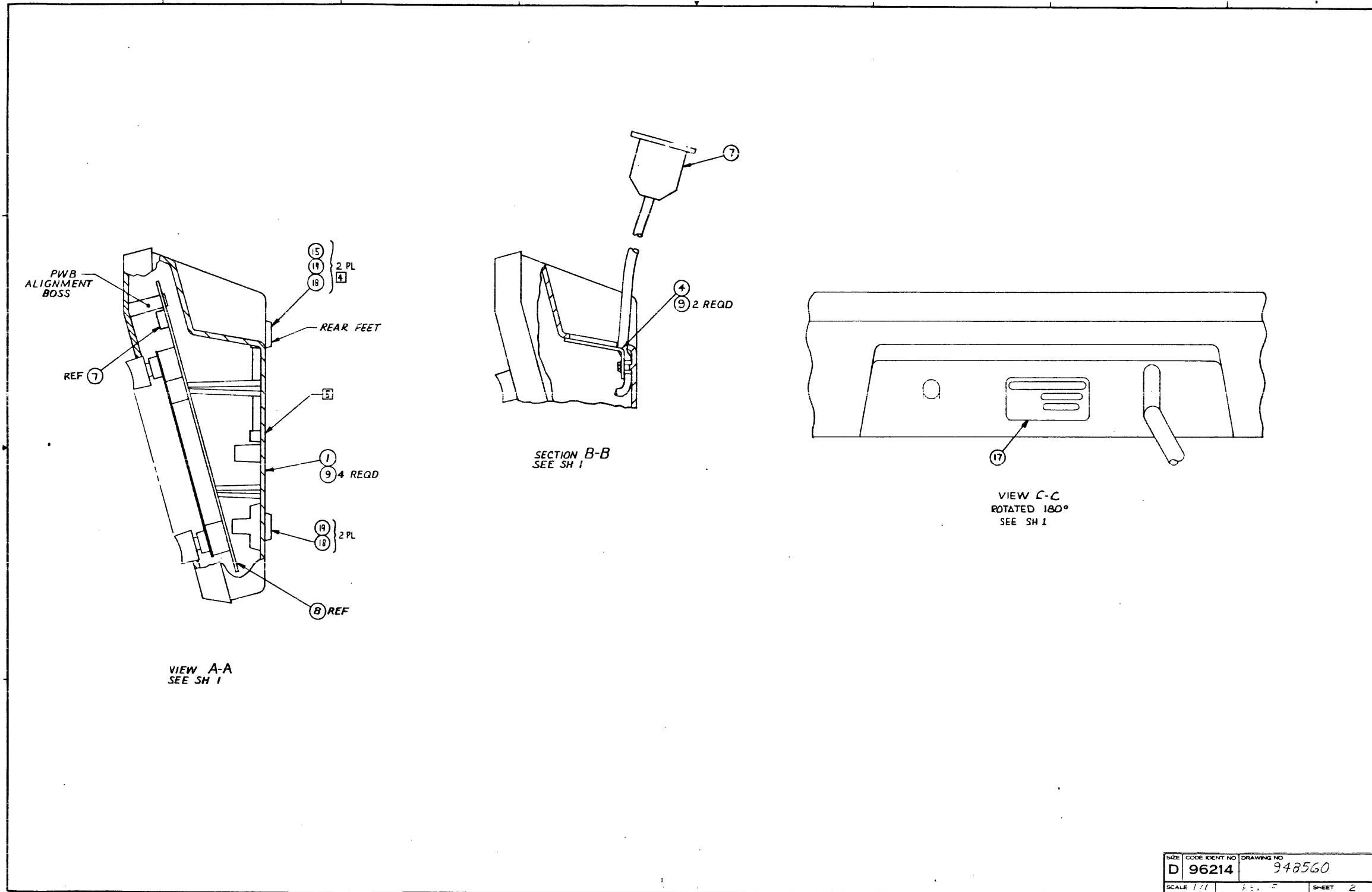
SIZE	CODE IDENT NO	DRAWING NO
D	96214	3-86-078
SCALE	REV C	SHEET 20

4 on
5 on
6 on
7 on
8 on



HEXONIC / LOGIC SHEET CROSS REFERENCE TABLE		HEXONIC / LOGIC SHEET CROSS REFERENCE TABLE		NETWORK / LOGIC SHEET CROSS REFERENCE TABLE	
SIGNAL	HEXONIC	LOGIC SHEET (ORIGIN)	LOGIC SHEET (ORIGIN)	NETWORK LOCATION	LOGIC SHEET(S)
ALAG		6		U1	2,21
ALAG*		6		U2	3
ALPHAL		13		U3	9,10
ALPHAL*		14		U4	15
AQ		17		U5	15
AQ*		18		U6	15
BETSL		3		U7	15
BETSL*		3		U8	3
BEL		15		U9	3
BEL*		15		U10	3
BET1T*		3		U11	9,14,18
BET2T*		3		U12	14
BET3T*		3		U13	20
BKINL		3		U14	20
BKINL*		3		U15	18
BLANK		15		U16	15
BLANK*		15		U17	18,21
BLO		15		U18	3
BLO*		15		U19	14,15,16
BTL		3		U20	9,15
BTL*		3		U21	16
BTL*		3		U22	5
BTL*		3		U23	14
BTL*		3		U24	14
BTL*		3		U25	21
BTL*		3		U26	20
BTL*		3		U27	18
BTL*		3		U28	18
BTL*		3		U29	15,18,20
BTL*		3		U30	20
BTL*		3		U31	21
BTL*		3		U32	3
BTL*		3		U33	21
BTL*		3		U34	14
BTL*		3		U35	14
BTL*		3		U36	14
BTL*		3		U37	18
BTL*		3		U38	4,5,15,16
BTL*		3		U39	4,7
BTL*		3		U40	7
BTL*		3		U41	4
BTL*		3		U42	6
BTL*		3		U43	6
BTL*		3		U44	19
BTL*		3		U45	19
BTL*		3		U46	19
BTL*		3		U47	21
BTL*		3		U48	4,8
BTL*		3		U49	7
BTL*		3		U50	7
BTL*		3		U51	7
BTL*		3		U52	7
BTL*		3		U53	7
BTL*		3		U54	9
BTL*		3		U55	9
BTL*		3		U56	9
BTL*		3		U57	9
BTL*		3		U58	6
BTL*		3		U59	7
BTL*		3		U60	7
BTL*		3		U61	7
BTL*		3		U62	7
BTL*		3		U63	7
BTL*		3		U64	8
BTL*		3		U65	8
BTL*		3		U66	8
BTL*		3		U67	8
BTL*		3		U68	8
BTL*		3		U69	15,17,18
BTL*		3		U70	19
BTL*		3		U71	20
BTL*		3		U72	19
BTL*		3		U73	19
BTL*		3		U74	19
BTL*		3		U75	19
BTL*		3		U76	19
BTL*		3		U77	21
BTL*		3		U78	8,14,15
BTL*		3		U79	17
BTL*		3		U80	3
BTL*		3		U81	8,15
BTL*		3		U82	21
BTL*		3		U83	3
BTL*		3		U84	21
BTL*		3		U85	13
BTL*		3		U86	20
BTL*		3		U87	15,20
BTL*		3		U88	15,20
BTL*		3		U89	5
BTL*		3		U90	15,17,20
BTL*		3		U91	15
BTL*		3		U92	16
BTL*		3		U93	5
BTL*		3		U94	13
BTL*		3		U95	21
BTL*		3		U96	20
BTL*		3		U97	20
BTL*		3		U98	4,5
BTL*		3		U99	17
BTL*		3		U100	15
BTL*		3		U101	15
BTL*		3		U102	13,15,16
BTL*		3		U103	5
BTL*		3		U104	13
BTL*		3		U105	13
BTL*		3		U106	13
BTL*		3		U107	4,19
BTL*		3		U108	17
BTL*		3		U109	19
BTL*		3		U110	17
BTL*		3		U111	17,21
BTL*		3		U112	13,17
BTL*		3		U113	10,16
BTL*		3		U114	4,13
BTL*		3		U115	10,13
BTL*		3		U116	10
BTL*		3		U117	12
BTL*		3		U118	12
BTL*		3		U119	12

DATE: 11/6/78
 D96214
 SCALE: 10:1
 SHEET 22



TEXAS INSTRUMENTS INCORPORATED		DATE 10/09/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM948560-0001		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
J001	00001.000	EA		0948582-0001	BASE,713 KEYBOARD						
J002	00001.000	EA		0948583-0001	TOP,713 KEYBOARD						
J003	00001.000	EA		0948633-0001	LABEL,TERMINAL,911						
J004	00001.000	EA		0948585-0001	BRACKET,STRAIN RELIEF						
J007	00001.000	EA		0948589-0001	CABLE ASSY,911,KEYBOARD-911						
J008	00001.000	EA		0946121-0001	KEYBOARD,713 VDU						
J009	00006.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX						
0015	00002.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL	- MS15795-806				
J017	00001.000	EA		2263920-0002	PLATE,I.D.,911 KYBD						
J018	00004.000	EA		J230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD	-101-1138				
0019	00004.000	EA		0972363-0408	SCREW #4-20 X 1/2 PAN HEAD,PLASTITE						
J020	J0001.000	EA		0993223-0002	HOLDER,KYBD LABEL W/ADHESIVE TAPE						
J021	J0001.000	EA		0938857-0001	KEYSRIP,FUNCTION 774/911						
0022	00001.000	EA		0532997-0016	BAG,POLYETHYLENE,HEAT SEALED						
J023	AR	EA		0415404-0002	TAPE,MASKING,.50 WIDE						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						KEYBOARD ASSY,911
						7510
						LM948560-0001
						REV G

TEXAS INSTRUMENTS INCORPORATED		DATE 10/09/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM948560-0002		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0948582-0001	BASE,713 KEYBOARD						
0002	00001.000	EA		0948583-0003	TOP,911 KYBD,JAPANESE						
0003	00001.000	EA		0948633-0001	LABEL,TERMINAL,911						
0004	00001.000	EA		0948585-0001	BRACKET,STRAIN RELIEF						
0007	00001.000	EA		0948589-0001	CABLE ASSY,911,KEYBOARD-911						
0008	00001.000	EA		2263487-0001	JAPANESE 911 KYBD						
0009	00006.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX						
0015	00002.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL	- MS15795-806				
0017	00001.000	EA		2263920-0003	PLATE,I.D.,911 KYBD,JAPAN						
J018	00004.000	EA		J230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD	-101-1138				
0019	00004.000	EA		0972363-0408	SCREW #4-20 X 1/2 PAN HEAD,PLASTITE						
0020	00001.000	EA		0993223-0002	HOLDER,KYBD LABEL W/ADHESIVE TAPE						
0021	00001.000	EA		0938857-0001	KEYSRIP,FUNCTION 774/911						
0022	00001.000	EA		0532997-0016	BAG,POLYETHYLENE,HEAT SEALED						
0023	AR	EA		0415404-0002	TAPE,MASKING,.50 WIDE						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						KEYBOARD ASSY,911,JAPAN
						LM948560-0002
						REV G

TEXAS INSTRUMENTS INCORPORATED		DATE 10/09/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM948560-0003		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0948582-0001	BASE,713 KEYBOARD						
0002	00001.000	EA		0948583-0001	TOP,713 KEYBOARD						
0003	00001.000	EA		0948633-0001	LABEL,TERMINAL,911						
0004	00001.000	EA		0948585-0001	BRACKET,STRAIN RELIEF						
0007	00001.000	EA		0948589-0001	CABLE ASSY,911,KEYBOARD-911						
0008	00001.000	EA		0946086-0101	911 KEYBOARD,GREAT BRITAIN						
0009	00006.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX						
0015	00002.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL	- MS15795-806				
0017	00001.000	EA		2263920-0004	PLATE,I.D.,911 KYBD,G.B.						
J018	J0004.000	EA		J230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD	-101-1138				
0019	00004.000	EA		0972363-0408	SCREW #4-20 X 1/2 PAN HEAD,PLASTITE						
0020	00001.000	EA		0993223-0002	HOLDER,KYBD LABEL W/ADHESIVE TAPE						
0021	00001.000	EA		0938857-0001	KEYSRIP,FUNCTION 774/911						
0022	00001.000	EA		0532997-0016	BAG,POLYETHYLENE,HEAT SEALED						
0023	AR	EA		0415404-0002	TAPE,MASKING,.50 WIDE						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						KEYBOARD ASSY,911,GREAT BRITAIN
						LM948560-0003
						REV G

TEXAS INSTRUMENTS INCORPORATED		DATE 10/09/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM948560-0004		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
J001	J0001.000	EA		0948582-0001	BASE,713 KEYBOARD						
J002	00001.000	EA		0948583-0001	TOP,713 KEYBOARD						
J003	00001.000	EA		0948633-0001	LABEL,TERMINAL,911						
J004	00001.000	EA		0948585-0001	BRACKET,STRAIN RELIEF						
J007	J0001.000	EA		0948589-0001	CABLE ASSY,911,KEYBOARD-911						
J008	00001.000	EA		0946086-0102	911 KEYBOARD,FRANCE						
J009	J0006.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX						
0015	J0002.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL	- MS15795-806				
0017	J0001.000	EA		2263920-0005	PLATE,I.D.,911 KYBD,FRANCE						
0018	J0004.000	EA		J230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD	-101-1138				
0019	00004.000	EA		0972363-0408	SCREW #4-20 X 1/2 PAN HEAD,PLASTITE						
0020	00001.000	EA		0993223-0002	HOLDER,KYBD LABEL W/ADHESIVE TAPE						
0021	00001.000	EA		0938857-0001	KEYSRIP,FUNCTION 774/911						
0022	00001.000	EA		0532997-0016	BAG,POLYETHYLENE,HEAT SEALED						
J023	AR	EA		0415404-0002	TAPE,MASKING,.50 WIDE						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						KEYBOARD ASSY,911,FRANCE
						LM948560-0004
						REV G

TEXAS INSTRUMENTS INCORPORATED		DATE 10/09/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM948560-0005		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0948582-0001	BASE,713 KEYBOARD						
0002	0001.000	EA		0948583-0002	TOP,911 KYBD,GER/SWED/FNLD/NOR/DENMARK						
0003	0001.000	EA		0948633-0001	LABEL,TERMINAL,911						
0004	0001.000	EA		0948585-0001	BRACKET,STRAIN RELIEF						
0007	0001.000	EA		0948589-0001	CABLE ASSY,911,KEYBOARD-911						
0008	0001.000	EA		0946086-0201	911 KEYBOARD,GERMANY						
0009	0006.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX						
0015	0002.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL		- NS15795-806			
0017	0001.000	EA		2263920-0006	PLATE,I.D.,911 KYBD,GERMANY						
0018	0004.000	EA		0230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD		-101-1138			
0019	0004.000	EA		0972363-0408	SCREW #4-20 X 1/2 PAN HEAD,PLASTITE						
0020	0001.000	EA		0993223-0002	HOLDER,KYBD LABEL W/ADHESIVE TAPE						
0021	0001.000	EA		0938857-0001	KEYSTRIP,FUNCTION 774/911						
0022	0001.000	EA		0532997-0016	BAG,POLYETHYLENE,HEAT SEALED						
0023	AR	EA		0415404-0002	TAPE,MASKING,.50 WIDE						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KEYBOARD ASSY,911,GERMANY			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM948560-0005		REV G	

TEXAS INSTRUMENTS INCORPORATED		DATE 10/09/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM948560-0006		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0948582-0001	BASE,713 KEYBOARD						
0002	0001.000	EA		0948583-0002	TOP,911 KYBD,GER/SWED/FNLD/NOR/DENMARK						
0003	0001.000	EA		0948633-0001	LABEL,TERMINAL,911						
0004	0001.000	EA		0948585-0001	BRACKET,STRAIN RELIEF						
0007	0001.000	EA		0948589-0001	CABLE ASSY,911,KEYBOARD-911						
0008	0001.000	EA		0946086-0202	911 KEYBOARD,SWEDEN/FINLAND						
0009	0006.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX						
0015	0002.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL		- NS15795-806			
0017	0001.000	EA		2263920-0007	PLATE,I.D.,911 KYBD,SWEDEN						
0018	0004.000	EA		0230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD		-101-1138			
0019	0004.000	EA		0972363-0408	SCREW #4-20 X 1/2 PAN HEAD,PLASTITE						
0020	0001.000	EA		0993223-0002	HOLDER,KYBD LABEL W/ADHESIVE TAPE						
0021	0001.000	EA		0938857-0001	KEYSTRIP,FUNCTION 774/911						
0022	0001.000	EA		0532997-0016	BAG,POLYETHYLENE,HEAT SEALED						
0023	AR	EA		0415404-0002	TAPE,MASKING,.50 WIDE						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KEYBOARD ASSY,911,SWEDEN/FINLAND			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM948560-0006		REV G	

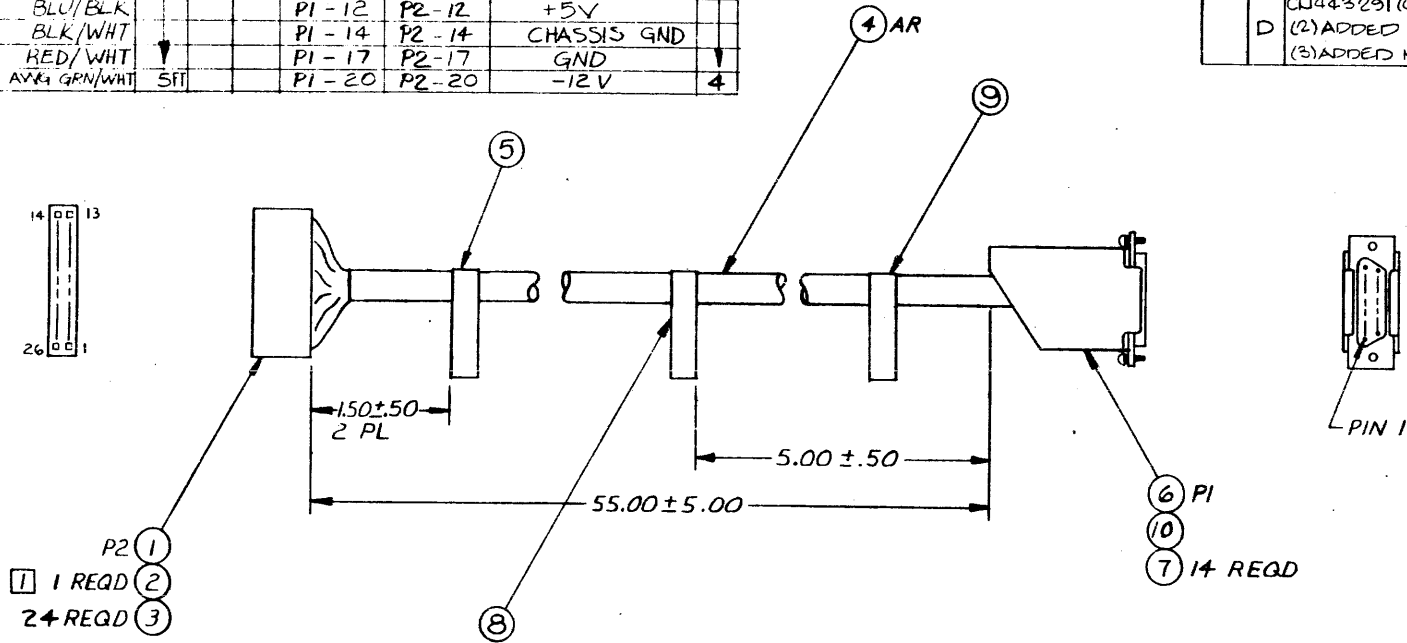
TEXAS INSTRUMENTS INCORPORATED		DATE 10/09/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM948560-0007		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0948582-0001	BASE,713 KEYBOARD						
0002	0001.000	EA		0948583-0002	TOP,911 KYBD,GER/SWED/FNLD/NOR/DENMARK						
0003	0001.000	EA		0948633-0001	LABEL,TERMINAL,911						
0004	0001.000	EA		0948585-0001	BRACKET,STRAIN RELIEF						
0007	0001.000	EA		0948589-0001	CABLE ASSY,911,KEYBOARD-911						
0008	0001.000	EA		0946086-0203	911 KEYBOARD,DENMARK/NORWAY						
0009	0006.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX						
0015	0002.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL		- NS15795-806			
0017	0001.000	EA		2263920-0008	PLATE,I.D.,911 KYBD,DENMARK						
0018	0004.000	EA		0230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD		-101-1138			
0019	0004.000	EA		0972363-0408	SCREW #4-20 X 1/2 PAN HEAD,PLASTITE						
0020	0001.000	EA		0993223-0002	HOLDER,KYBD LABEL W/ADHESIVE TAPE						
0021	0001.000	EA		0938857-0001	KEYSTRIP,FUNCTION 774/911						
0022	0001.000	EA		0532997-0016	BAG,POLYETHYLENE,HEAT SEALED						
0023	AR	EA		0415404-0002	TAPE,MASKING,.50 WIDE						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KEYBOARD ASSY,911,DENMARK/NORWAY			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM948560-0007		REV G	

WIRE NO	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	PL ITEM NO
1	NO 22 AWG /WHT	5 FT			PI-1	P2-1	KBDT 1	4
2	↑ /BLK	↑			PI-2	P2-2	KBDT 2	↑
3	/RED				PI-3	P2-3	KBDT 3	
4	/GRN				PI-4	P2-4	KBDT 4	
5	/ORN				PI-5	P2-5	KBDT 5	
6	/BLU				PI-6	P2-6	KBDT 6	
7	WHT/BLK				PI-7	P2-7	KBDT 7	
8	RED/BLK				PI-8	P2-8	KBDT 8	
9	GRN/BLK				PI-9	P2-9	KBSIN →	
10	ORN/BLK				PI-10	P2-10	REPEAT →	
11	BLU/BLK				PI-12	P2-12	+5V	
12	BLK/WHT				PI-14	P2-14	CHASSIS GND	
13	RED/WHT				PI-17	P2-17	GND	
14	NO 22 AWG /GRN/WHT	5 FT			PI-20	P2-20	-12 V	4

NOTES:

- 1 INSTALL ITEM 2 INTO ITEM 1 FROM REAR SIDE AT LOCATION P2-13 ~~AND P2-24~~
- 2 ITEM 1 IN -0001 LM CONSISTS OF BULK CABLE ASSY MAT'L

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN426418 (C) B. Walker	7-27-77	J. R. Roby
B		(1) ITEM 6, PI, CHANGED PICTORIAL CN430736 (C) G. Muller (1) ITEM 7 PART NO. WAS 539430-0000 (2) ON LM AND DWG TITLE WAS CABLE ASSEMBLY, 911, KEYBOARD-VDU	1-9-78	J. R. Roby
C		CN448459 (C) B. Walker (1) DELETED AND P2-24" ON NOTE 1 ALSO DELETED THE "S" ON LOCATIONS (2) CHG QTY ON ITEM 2 OF LM (3) ON PICTORIAL ZN B-4, ITEM 2 WAS: 2 REOD	3-14-79	E. Wang
D		CN443291 (C) S. Hu (1) CREATED -0001 LM (2) ADDED ITEM 101 TO -0001 LM (3) ADDED NOTE 2 (4) ADDED PIN BLOCK	8-22-79	E. Wang



QTY REQD	PART NO.	DESCRIPTION
	948549-5001	BULK CABLE ASSY MAT'L FOR-0001
	948549-0001	CABLE ASSY, 911, KEYBOARD-911

PROCESSES:
1. SOLDER PER F-127,
METHOD I

- UNLESS OTHERWISE SPECIFIED
- REMOVE ALL BURRS AND SHARP EDGES
 - CONCENTRICITY MACHINED DIAMETERS .010 FIR
 - DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
 - IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
 - INTERPRET DRAWING IN ACCORDANCE WITH MIL STD 100

HOLE TOLERANCE
013 THRU + .004
125 - .001
501 THRU + .008
750 - .001
126 + .005
THRU - .001
250 + .010
THRU - .001
251 + .006
THRU - .001
500 + .012
THRU - .001
1.001 THRU + .012
2.000 - .001

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST					
			UNLESS OTHERWISE SPECIFIED		OWN: R. P. Lee 3 11-8-76 DATE: 11/13/77 BY: E. Oberman 30 Nov 76 11/17/77 1-14-77 DATE: 1-14-77 COUNTRY:
			• DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ± 1° 3 PLACE DECIMALS ± .010 2 PLACE DECIMALS ± .02		
948560 7510			APPLICATION		TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas CABLE ASSEMBLY, 911, KEYBOARD-VDU SIZE: C 96214 DRAWING NO: 948589 SCALE: 1/1 SHEET:

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 07/20/79		PAGE 1 of		PART NUMBER LM0948589-0001		REV D	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	FA	0972847-0003	CONNECTOR, 26 POSITION RECEPTACLE, 100 GR	0972779-86148-4						
0001A				P2							
0002	00001.000	FA	0972901-0001	KEYING PLUG-.6 LG NYLON	AMP --87077-1						
0005	00001.000	EA	0936478-0003	MARKER, CABLE, KEYBOARD							
0006	00001.000	FA	0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1						
0006A				P1							
0008	00001.000	EA	0936478-0004	MARKER, CABLE, KEYBOARD/VDU							
0009	00001.000	FA	0936478-0005	MARKER, CABLE, VDU							
0010	00001.000	FA	0539903-0001	HEAD, CONN 25 PIN WITH RETAINERS	AMP - 206478-3						
0101	00001.000	FA	0948589-5001	BULK CABLE ASSEMBLY MATERIAL FOR-1001							

DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY
DRAFTSMAN				DATE				TITLE			
				8-6-79				CABLE ASSY, 25 KEYBOARD-911			
APPROV				DATE				PROJECT NO			
				7510				LM0948589-0001			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 07/20/79		PAGE 1 of		PART NUMBER LM0948589-5001		REV D	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0003	00024.000	FA	0539380-0006	CONTACT, 24-20AWG REPLY COPPER	089110-87339-3						
0004	00005.000	FT	0972444-0002	CABLE, 15COND 22AWG UN LISTED							
0007	00014.000	FA	0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2						

DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY
DRAFTSMAN				DATE				TITLE			
								BULK CABLE ASSEMBLY MATERIAL FOR-0001			
APPROV				DATE				PROJECT NO			
								LM0948589-5001			


DWG NO 948561		SH	
APPLICATION		REVISIONS	
NEXT ASSY	USED ON	REV	DESCRIPTION
936477	7510		
	7049	C	CN426242 (E) H. Lyung (1) REPLACES REV B WITH CHANGE (2) DWG WAS D SIZE
		D	CN437208 (E) D. D. Lee 5-11-78
		E	CN441756 (E) K. Douffer 3-6-79
UNLESS OTHERWISE SPECIFIED • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02 • PARENTHEICAL INFO FOR REF ONLY		DWN L. HENRY 3 DATE 7/15/77 CHW L. HENRY 7-15-77 ENGR L. HENRY 7/15/77 APP L. HENRY 7/18/77 QA L. HENRY 8/7/77 CONTR L. HENRY 9/1/77 DISE L. HENRY 9/1/77 MFG R. J. Bradley 7-19-77	
REV STATUS OF SHEETS REV SHEET E C C D C C C C C E C C C C		TEXAS INSTRUMENTS INCORPORATED Dallas, Texas CABLE ASSY, VDU TO CNTR, DOMESTIC	
SIZE A FSCM NO 96214 DRAWING NO 948561 SCALE NONE SHEET 1 OF 14		SHEET 1 2 3 4 5 6 7 8 9 10 11 12 13 14	

1.0 SCOPE
 This specification covers the requirements for a data cable assembly used to interconnect the 911 VDT and controller. This assembly shall have Underwriters LABORATORIES approval construction.

2.0 APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposal from a part of the specification to the extent specified herein. In the event of any conflict between this document and the reference documents, this document shall govern:

MIL-STD-105D	Sampling Procedures and Tables for Inspection by Attributes
MIL-G-45204	Gold Plating, Electro - Deposited
QQ-N-290	Nickel Plating Electro - Deposited
QQ-B-626	Brass, Leaded and Nonleaded Flat Products (Plate, Bar, Sheet, and Strip)
UL 478	Standard for Safety: Electronic Data Processing Units and Systems
MIL-C-50	Copper Alloy, #260, Cartridge Brass, 70%, Sheet, Strip, Plate Bar and Discs.
QQ-B-750	Bronze, Phosphor, Bar, Plate, Rod, Sheet, Strip, Flat Wire, and Structural and Special Shaped Sections

 TEXAS INSTRUMENTS INCORPORATED DIGITAL SYSTEMS DIVISION HOUSTON, TEXAS	A 948561 SHEET 2	REV C
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3.0 REQUIREMENTS

3.1 **Materials and Construction:**

Materials, finishes, and marking for each part shall be as specified herein. When the materials or class of materials are not specified, a material shall be used which will enable the device to meet all the requirements of this drawing. Materials, finishes, and marking shall not blister, crack, flow or be adversely affected when exposed to the storage, operating or environmental conditions specified on this drawing.

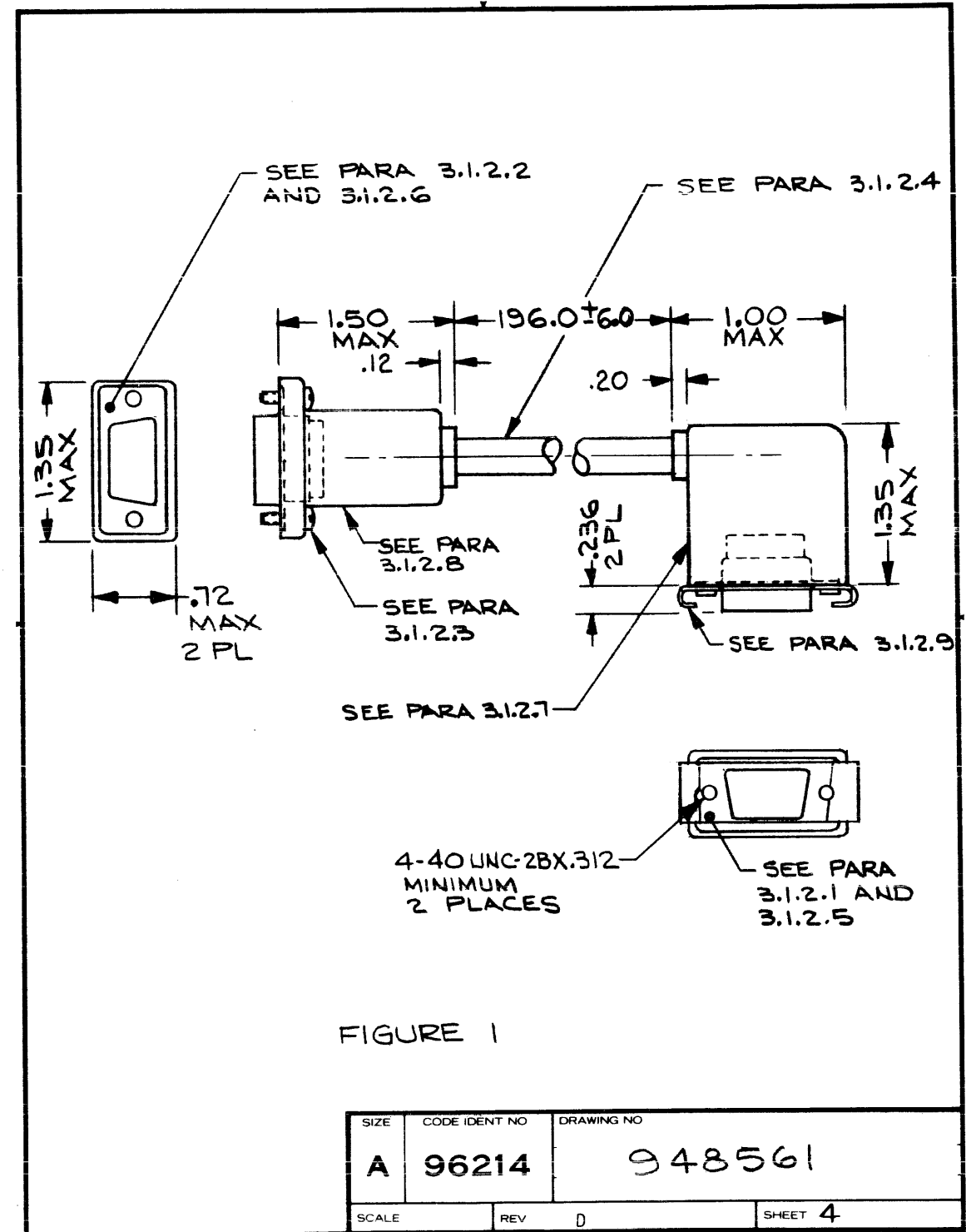
3.1.1 **Physical Configuration**

See Figure 1.

3.1.2 **Material**

3.1.2.1 Shell, Standard D subminiature rectangular connector - 9 pin type less contacts, ITT Cannon Electric PN DEC9PFO or equivalent.

3.1.2.2 Shell, Standard D subminiature rectangular connector - 9 socket type less contacts, ITT Cannon Electric PN DEC9SFO or equivalent.



A 948561 REV C
SHEET 3

3.1.2.3 Screw, #4-40 NC - 2A thread Cadmium plated steel or equivalent.

Screws must be held captive by molded hood. (refer to paragraph 3.1.2.3) TWO SCREWS TOTAL are required.

3.1.2.4 Cable, nine conductor. Cable consists of 75 OHM coax, # 26 AWG conductors with all conductors enclosed within a protector jacket - refer to Figure 2. This cable is specified in TI DRAWING 936486.
(COMPONENT MANUFACTURING SERVICE
PN CMS 719)

3.1.2.4.1 Physical Configuration:
See Figure 2.



A 948561 REV C
SHEET 5

3.1.2.4.2 Material:

ITEM #	DESCRIPTION	CONSTRUCTION DETAIL
1	COAXIAL CABLE (SIMILAR TO RG59/u)	CONDUCTOR - #22 AWG, STRANDED OR SOLID INSULATION - FOAM POLYETHELENE SHIELD - #36 AWG BRAID (MINIMUM) 95% COVERAGE (MINIMUM) JACKET - POLYESTER TAPE
2	SINGLE CONDUCTOR	CONDUCTOR - #26 AWG, STRANDED 7/34 INSULATION - AS REQUIRED TO MEET OR EXCEED UL REQUIREMENTS
3	FILLERS	NON-CONDUCTIVE FILAMENTS AS REQUIRED TO MAINTAIN A CIRCULAR CABLE CROSS- SECTION
4	CABLE	CORE - COAX (ITEM 1 ABOVE) AND SEVEN SINGLE CONDUCTORS (ITEM 2) AND FILLERS (ITEM 3) IF REQUIRED JACKET - MATERIAL AND THICKNESS AS REQUIRED TO MEET OR EXCEED UL REQUIREMENTS.

SIZE	CODE IDENT NO	DRAWING NO
A	96214	948561
SCALE	REV	SHEET
	C	6

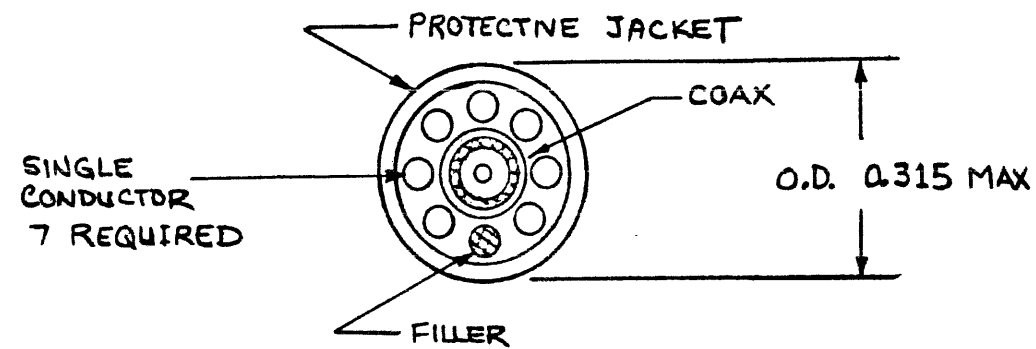


FIGURE 2

3.1.2.4.3 Electrical:

ITEM#	DESCRIPTION	CONSTRUCTION DETAIL
1	COAXIAL CABLE (SIMILAR TO RG 59/U)	IMPEDENCE: 75 OHMS - NORMAL CAPACITANCE: 24 PF/FT MAXIMUM ATTENUATION: 1.3 db/100 FT MAXIMUM AT 10 MHZ NOTE: IMPRESSED SIGNAL VOLTAGE LESS THAN 10 VOLTS PEAK-TO-PEAK COMPOSITE VIDEO. UL STYLE 1354, RATED 60C AND 30V.
2	SINGLE CONDUCTOR	SHALL SAFELY MEET THE REQUIREMENTS OF 5.5 VOLTS AT 40 MILLIAMPS CONTINUOUS OPERATION. UL STYLE 1061 RATED 80C AND 300V
3	FILLERS	NON-CONDUCTIVE
4	CABLE	UL STYLE 2704 TEMP 60°C VOL. 30V OR ALTERNATELY UL STYLE 2448 TEMP 60°C VOL. 30V UL STYLE 2384 TEMP 60°C VOL 30V

3.1.2.4.4 Flexibility:

The cable shall permit a bend radius of 6 multiplied by the diameter of the coax.

SIZE	CODE IDENT NO	DRAWING NO
A	96214	948561
SCALE	REV	SHEET
	C	8

TEXAS INSTRUMENTS
INCORPORATED
DIGITAL SYSTEMS DIVISION
HOUSTON, TEXAS

A 948561 REV C
SHEET 7

- 3.1.2.4.5 Color Coding:
Each #26 AWG conductor shall be uniquely color coded.
Refer to Table 1.
- 3.1.2.5 Contact, Pin:
Material: **COPPER ALLOY PER MIL-C-50 OR BRASS PER QQ-B-626**
Finish: Gold Flash Over .000030" (0.0008mm) nickel.
Gold plated per MIL-G-45204; Nickel plated per QQ-N-290
Selective Gold/Nickel or Gold/Nickel finish may be substituted.
- 3.1.2.6 Contact, Socket
Material: **COPPER ALLOY PER MIL-C-50 OR BRASS PER QQ-B-626** or phosphor bronze per QQ-B-750.
Finish: Gold Flash Over .000030" (0.0008mm) nickel.
Gold plated per MIL-G-45204; Nickel plated per QQ-N-290
Selective Gold/Nickel or Gold/Nickel finish may be substituted.
- 3.1.2.7 Hood, Molded:
Cable entry at hood shall be 90 degrees.
- 3.1.2.8 Hood, Molded:
The hood shall hold retaining screws captive. Cable entry at hood shall be 180 degrees.
- 3.1.2.9 Sliding Lock Retainer:
1 required, includes sheet steel retainer plate, two screws #4-40 NC-2A thread and two 4-40 nuts. Hardware has cadmium plate, yellow chromate finish, ITT cannon electric PN DE51224-1 or equivalent.

SIZE	CODE IDENT NO	DRAWING NO
A	96214	948561
SCALE	REV	SHEET
	C	9


- 3.2 Markings
- 3.2.1 Hoods specified in paragraphs 3.1.2.7 and 3.1.2.8 shall be marked with the manufacturer's name or logo and part number.
- 3.2.2 The cable end terminated with the hood described in paragraph 3.1.2.7 shall be labeled with the following:
- LISTED
UL (R) E.D.P.
CABLE
XXXX
- (XXXX DESIGNATES THE CABLE MANUFACTURERS UL CONTROL NUMBER)
- 3.2.3 The hood referenced in paragraph 3.1.2.8 shall be marked as follows:
- P1 - 911 CNTR
TI P/N 948561-1
- 3.2.4 The hood referenced in paragraph 3.1.2.8 shall be marked as follows:
- P2 - 911 VDT
TI P/N 948561-1
- 3.2.5 Cable reels within the manufacturer's facility shall be marked per UL 478 requirements.

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	SHEET	10	E

3.3 **UL Certification**
 The cable assembly shall be UL listed under UL 478 for use with electronic data processing units and systems. The supplier is responsible for obtaining and maintaining UL approval of the cable assembly.

4.0 **QUALITY ASSURANCE PROVISIONS**

4.1 **Responsibility for Inspection**
 Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the procuring activity. The procuring activity reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.


 TEXAS INSTRUMENTS INCORPORATED DIGITAL SYSTEMS DIVISION HOUSTON, TEXAS	A 948561 SHEET 11	REV C
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4.2 **Inspection by Texas Instruments Incorporated**
 All items furnished to this specification shall meet the mechanical and electrical requirements specified herein when subjected to receiving inspection at Texas Instruments Incorporated. The standard inspection sampling plan used at Texas Instruments, unless otherwise specified in the contract or purchase order, is a 1% AQL Single Sampling, General Inspection Level II and Normal Inspection per MIL-STD-105D. Failure of any sample to meet the requirements of this sampling plan shall be grounds for rejection of the entire lot. Rejected lots may be returned to the supplier for screening or may be screened at Texas Instruments, at the procuring activity's option, at the supplier's expense.

5.0 **PREPARATION FOR DELIVERY**

5.1 **Packaging**

5.1.1 **Packaging shall be adequate to provide protection against any damage, breakage, or loss during shipment from the supply source to the ultimate using activity.**

 TEXAS INSTRUMENTS INCORPORATED DIGITAL SYSTEMS DIVISION HOUSTON, TEXAS	A 948561 SHEET 12	REV C
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6.0 NOTES

6.1 Unless otherwise specified, all parts shall be marked with manufacturer's identification, manufacturer's part number, and data code or inspection lot or equivalent if space permits. If space does not permit part marking, the original protective envelope or wrapping shall contain the above required information.

6.2 Point to point pin assignments.

The coax center conductor is assigned to pin 2, while the coax shield connects to pin 1. All connections are straight through (i.e. P1-1 to P2-1, P1-2 to P2-2, ..., P1-9 to P2-9). All assignments of wire colors are as shown in Table I.

TABLE I

CONNECTOR P1 & P2	DESCRIPTION	COLOR	SIGNAL NAME
1	COAX SHIELD	OPTIONAL	GROUND
2	COAX CENTER	OPTIONAL	VIDEO
3	NO 26 AWG	ORN / WHT	TET1T
4	NO 26 AWG	YEL / WHT	TET2T
5	NO 26 AWG	GRN / WHT	TRD1T
6	NO 26 AWG	BLU / WHT	TRD2T
7	NO 26 AWG	VIO / WHT	BET1T
8	NO 26 AWG	GRY / WHT	BET2T
9	NO 26 AWG	WHT	MOD IN

SIZE A	CODE IDENT NO 96214	DRAWING NO 948561
SCALE	REV C	SHEET 13

7.0 Made for Texas Instruments Inc. By:

1. COMPONENT MANUFACTURING SERVICE, INC.
1 COMPONENT PARK
WEST BRIDGEWATER, MA 02379
(617) 580-0111

2. TELEDYNE AEROSPACE SYSTEMS
1007 EAST 10TH STREET
FAIRMONT, MINNESOTA 56031

3. TRIANGLE ELECTRONICS MFG. CO. INC
182 N. HAMILTON STREET
POUGHKEEPSIE, NEW YORK 12602

SIZE A	CODE IDENT NO 96214	DRAWING NO 948561
SCALE	REV C	SHEET 14

ZONE	LTR	DESCRIPTION	DATE	APPROVED
R		ADDED NOTE 25 (2) SH 3 ADDED TO VIEW J (3) ADDED WIRE LIST REV. BLOCK (4) LM ITEM 73, 79, 80 WAS 972415-0004, 975272-9901, 975277-9901 RESR (5) ADDED LM ITEM 74 (6) UPDATED REV. LEVEL BLK	11-24-76	J. R. ...
S		CN 417089 (D) R.P.R. (1) ITEM 62 ON 975243-0001-0003, 0005, 0015 & -0101 WAS 028003-6 (2) UPDATED REV. LEVEL BLK	1-22-77	R. ...
T		CN 420850 (D) R.P.R. (1) UPDATED REVISION LEVEL BLOCK	2-17-77	R. ...
U		CN 397991 (D) R.P.R. (1) DELETED L/M IT. 66 (2) CHG L/M IT. 61 QTY WAS 4 (3) UPDATED REVISION LEVEL BLOCK	4-6-77	D. ...
V		CN 417941 (C) R.P.R. (1) ADDED -0102 L/M (2) ADDED WIRE LISTS -15, -101 & -102 TO REVISION STATUS BLOCK (3) UPDATED REV STATUS BLOCK	4-6-77	D. ...
W		CN 417944 (D) R.P.R. (1) CHG L/M -1 & -3, IT. 12 WAS -1, IT. 20 WAS -1, IT. 30 WAS 231253-0084; L/M -15, IT. 12 WAS -2, IT. 20 WAS -1, IT. 23 WAS 972523-0002, IT. 30 WAS 231253-0084 (2) UPDATED REVISION STATUS BLOCK	4-6-77	D. ...
Y		CN 420079 (D) R.P.R. (1) 0005 LM ITEM 11 WAS 975090-0001, ITEM 12 WAS 975248-1, ITEM 20 WAS 974654-0001, ITEM 30 WAS 231253-0084 (2) UPDATED REV. LEVEL BLOCK	5-3-77	R. ...
AA		CN 420087 (D) R.P.R. (1) ADDED TO -0001 & -0015 LM IT. 97 (2) UPDATED REVISION LEVEL BLOCK	5-12-77	J. R. ...
AB		CN 422105 (C) R.P.R. (1) SH 3 AND 6 ZIN CS CALLOUT (2) SH 3 ADDED VIEW AA-AA (3) L/M'S -1, -3, -5, -15, -101 AND -102 ITEM 64 QTY WAS 17 (4) UPDATED REV. LEVEL BLOCKS.	6-8-77	J. R. ...
AC		CN 427269 (E) R.P.R. (1) LM ITEM 32 WAS 972248-1, UPDATED REV. LEVEL BLOCK	8-22-77	J. R. ...
AD		CN 425144 (C) R.P.R. (1) SH 2: ADDED FOR -0102 TO VIEW F (2) SH 4: MOVED ITEM 91 FROM ZIN A-6 TO ZIN C-7 (3) SH 11: ADDED NOTE 26 (4) UPDATED REV. LEVEL BLOCK	10-18-77	J. R. ...

- NOTES: (CONTINUED)
- APPLY APPROXIMATELY 3.50 INCHES OF ITEM 17 TO ITEM 3, CENTERING ITEM 17 BETWEEN HOLES IN ITEM 3. REMOVE LINER FROM ITEM 17 AND APPLY ITEM 3 TO ITEM 4, CENTERING THE HOLES IN ITEMS 3 AND 4.
 - REFER TO ITEM 79 FOR WIRING DETAILS.
 - SEAL ITEM 57 PER PROCESS 2.
 - REMOVE LINER FROM ITEM 61 AND APPLY TO BOTH SIDES OF ITEM 60 IN THE APPROXIMATE LOCATION SHOWN.
 - INSTALL ITEM 37 AS NECESSARY TO INSURE NEAT BUNDLES OF WIRE.
 - INSTALL ITEM 5 SO THAT IT IS LOCATED AS HIGH VERTICALLY AS POSSIBLE.
 - ITEM 62 MAY BE REPLACED WITH 628003-0004.
 - SEAL ITEM 43 PER PROCESS 2.
 - REMOVE ADHESIVE COVER FROM ITEM 83 AND ATTACH TO ITEM 1 CENTERING ABOVE ITEM 25 AND COVERING SILK SCREEN (FI ZAMP).
 - REMOVE ADHESIVE COVER FROM ITEM 84 AND ATTACH TO ITEM 5 CENTERING ABOVE ITEM 49 COVERING SILK SCREEN (115V 50/60HZ).
 - P3 (ITEM 89) MATES WITH J3/J4 (ITEM 86).
 - P4 (SIX CIRCUIT CONNECTOR ON ITEM 87) MATES WITH J3/J4 ON CABLE ASSY (ITEM 86).
 - ALIGN ITEM 93 TO COVER VENTILATING SLOTS ON UNDERSIDE OF ITEM 10 AND BOND WITH ITEM 94 IN ALL CORNERS AND BETWEEN SLOTS AS REQUIRED.
 - APPLIES TO -0005 ASSEMBLY ONLY.
 - MONITOR SUBASSY IS AVAILABLE FOR FIELD SPARES AS PART # 975400-0001 FOR EITHER UL OR NON-UL VDT'S. LM ITEMS 2, 12, 19, 21, 31, 33, 34, 36, 46, 58, 59, 60, 70, 71, 76 AND 77 ARE INCLUDED ON THIS SPARES ASSY.

REV. STATUS	REV. NO.	DESCRIPTION
975243-0102		913 VIDEO DISPLAY TERMINAL, 230V
975243-0004		Do NOT USE THESE NUMBERS
975243-0002		Do NOT USE THESE NUMBERS
975243-0005		913 RAMADA CRT 115V PTU
975243-0101		913 VIDEO DISPLAY TERMINAL, 115V UL
975243-0015		913 CRT DISPLAY, 230V, 50 HZ
975243-0003		913 CRT RAMADA CLUSTER
975243-0001		913 CRT DISPLAY TERMINAL-115V
PART NO.		DESCRIPTION

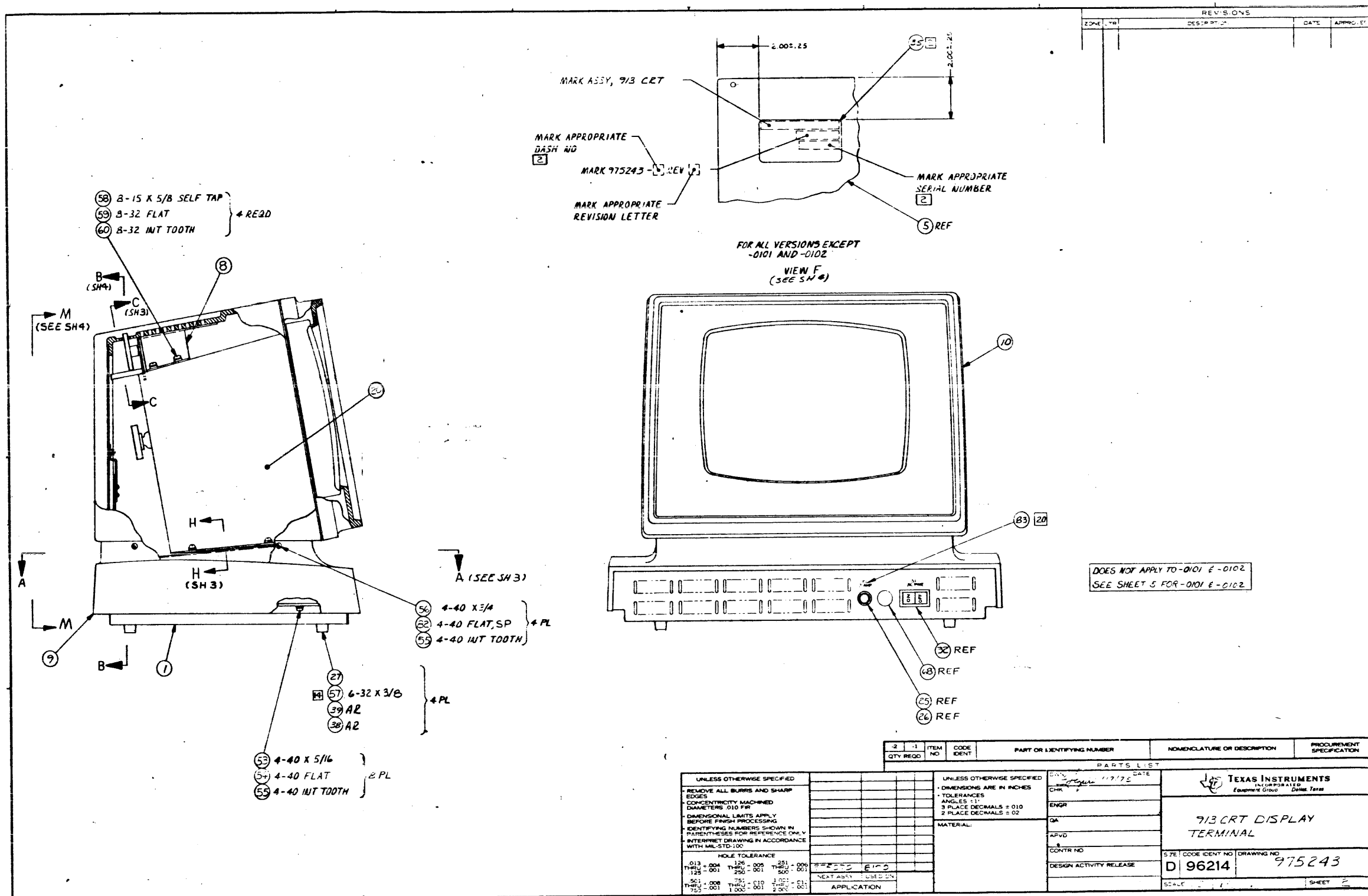
- PROCESSES:
- SOLDER PER F-127, METHOD I
 - SEAL PER F-650 USING ITEM 39 WITH ITEM 38

- NOTES:
- LOCATE ITEM 35 IN APPROXIMATE CENTER OF ITEM 1.
 - TYPE LABEL.
 - DISCARD FLAT SPLIT AND NUT THAT ARE PART OF ITEM 43.
 - INSERT ITEM 31 INTO TWO VACANT CONTACT SOCKETS OF P2 (FOUR CIRCUIT CONNECTOR ON ITEM 20). EITHER CONTACT MAY BE INSERTED IN EITHER CONTACT SOCKET.
 - REMOVE ADHESIVE LINER FROM ITEM 4 AND APPLY ITEM 4 TO ITEM 2, CENTERING ITEM 4 ON HOLE PATTERN.
 - ORIENT ITEM 22 WITH THE RED, BRN, BK WHT/R, WHT/BRN AND WHT/BK WIRES ARE TOWARDS THE FRONT OF THE UNIT. TRIM WIRES SO THAT THEY ARE EVEN IN LENGTH WHEN INSERTED IN P3 CONNECTOR.
 - P3 (ITEM 30) MATES WITH J3/J4 (ITEM 12) (CABLE ASSY).
 - P2 (FOUR CIRCUIT CONNECTOR ON ITEM 20) MATES WITH J2 ON ITEM 11.
 - P1 (ITEM 73) MATES WITH J1 ON ITEM 11. LEAVE LENGTH AS IS.
 - TWIST WIRES MAXIMUM OF 4 TWISTS PER INCH TO A MINIMUM OF 2 TWISTS PER INCH.
 - P4 (SIX CIRCUIT CONNECTOR ON ITEM 20) MATES WITH J3/J4 ON CABLE ASSY (ITEM 12).

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		ECN # 388039 (C) 2. See Plan. THIS ECN CLEARED FIRST ARTICLE WRITE-UPS.	1-5-77	J. R. ...
FORMAL RELEASE				
B		CN 395591 (D) R.P.R. (1) SH 11: ADDED NOTE 19 & DELETED NOTE 18; SH 4: (2) ADDED BALLOONS 39 & 38 (3) DELETED FLAG 18 (4) ITEM 62; L/M: (1) ITEM 62 WAS 975279-5 (5) UPDATED REV. LEVEL BLOCK	1-12-75	R. ...
C		CN 395590 (D) R.P.R. (1) ADDED -4 L/M ITEM 12, 23, 26 WAS 975286-0001, 08035-0005, 91022-0024 (3) ADDED -0069 TO PART NO TABLE (4) UPDATED REV. LEVEL BLOCK	2-11-76	R. ...
D		CN 392971 (D) R.P.R. (1) REVISED L/M PICTORIAL PER EXTENSIVE ENGR CHANGE (2) UPDATED REV. LEVEL BLOCK	2-13-76	R. ...
E		CN 383676 (C) R.P.R. (1) L/M, -1 & -3 ITEM 19 WAS 975438-0001 (2) UPDATED REV. LEVEL BLK	2-13-76	R. ...
F		CN 413007 (C) R.P.R. (1) ITEM 10 WAS 975460-0001 (2) UPDATED REV. LEVEL BLOCK	3-7-76	R. ...
G		CN 411353 (C) R.P.R. (1) ON -0015 LM ITEM 19 WAS 975438-0001 (2) UPDATED REV. LEVEL BLOCK	5-11-76	R. ...
H		CN 415262 (C) R.P.R. (1) L/M, -0001, -0003, -0015 L/M'S ITEM 23 WAS 235071-6500 & ITEM 45 WAS 918154-58 (2) UPDATED REV. LEVEL BLOCK	7-16-76	R. ...
J		CN 415262 (C) R.P.R. (1) L/M, -0001, -0003, -0015 DELETED ITEM 69 (2) UPDATED REV. LEVEL BLOCK	8-16-76	R. ...
K		CN 415356 (D) R.P.R. (1) REVISED FID & L/M PER EXTENSIVE ENR. CHG (2) REVISED REV STATUS BLOCK AND REVISION LEVEL BLOCK	10-5-76	R. ...
L		CN 414325 (C) R.P.R. (1) ADDED -5 TO CHART ON SH.1 (2) ADDED -2 AND -4 TO CHART AS SHOWN, SH. 1 (3) ADDED L/M FOR -5 (4) UPDATED REV. LEVEL AND REV STATUS BLOCKS	10-5-76	R. ...
M		CN 417424 (D) R.P.R. (1) ON -101 L/M ITEM 85 BN WAS 975458-2 (2) UPDATED REV. LEVEL BLOCK	10-5-76	R. ...
N		CN 419977 (C) R.P.R. (1) SH 2: DELETED VIEW PLANE FF FROM ITEM 10 (2) REV. VIEW FF (3) SH 4: ADDED ITEM 35 & REMARKS TO ITEM 5 (4) SH 1: DELETED NOTE 1 (5) ADDED TEST PROC. TO REV. LEVEL BLK (6) UPDATED REVISION LEVEL BLOCK	11-24-76	R. ...
P		CN 422699 (D) R.P.R. (1) REVISED ASSY PART NUMBERS ON SH. 2, 3, 4 (2) UPDATED REV. LEVEL BLOCKS	11-24-76	R. ...

[CONTINUED IN ZONE D8]

REV. STATUS	REV. NO.	DESCRIPTION	REV. NO.	DESCRIPTION	REV. NO.	DESCRIPTION	REV. NO.	DESCRIPTION	REV. NO.	DESCRIPTION	REV. NO.	DESCRIPTION	REV. NO.	DESCRIPTION	REV. NO.	DESCRIPTION	REV. NO.	DESCRIPTION	REV. NO.	DESCRIPTION
WIRE LIST (-0102)	975310-9901																			
WIRE LIST (-0101)	975256-9901																			
WIRE LIST (-0015)	975262-9901																			
WIRE LIST -RAMADA CRT	975391-9901																			
TEST PROCEDURE	(975276-9901)																			
WIRE LIST	975272-9901																			
ASSY - RAMADA CLUSTER	975243-0001																			
ASSY	975243																			



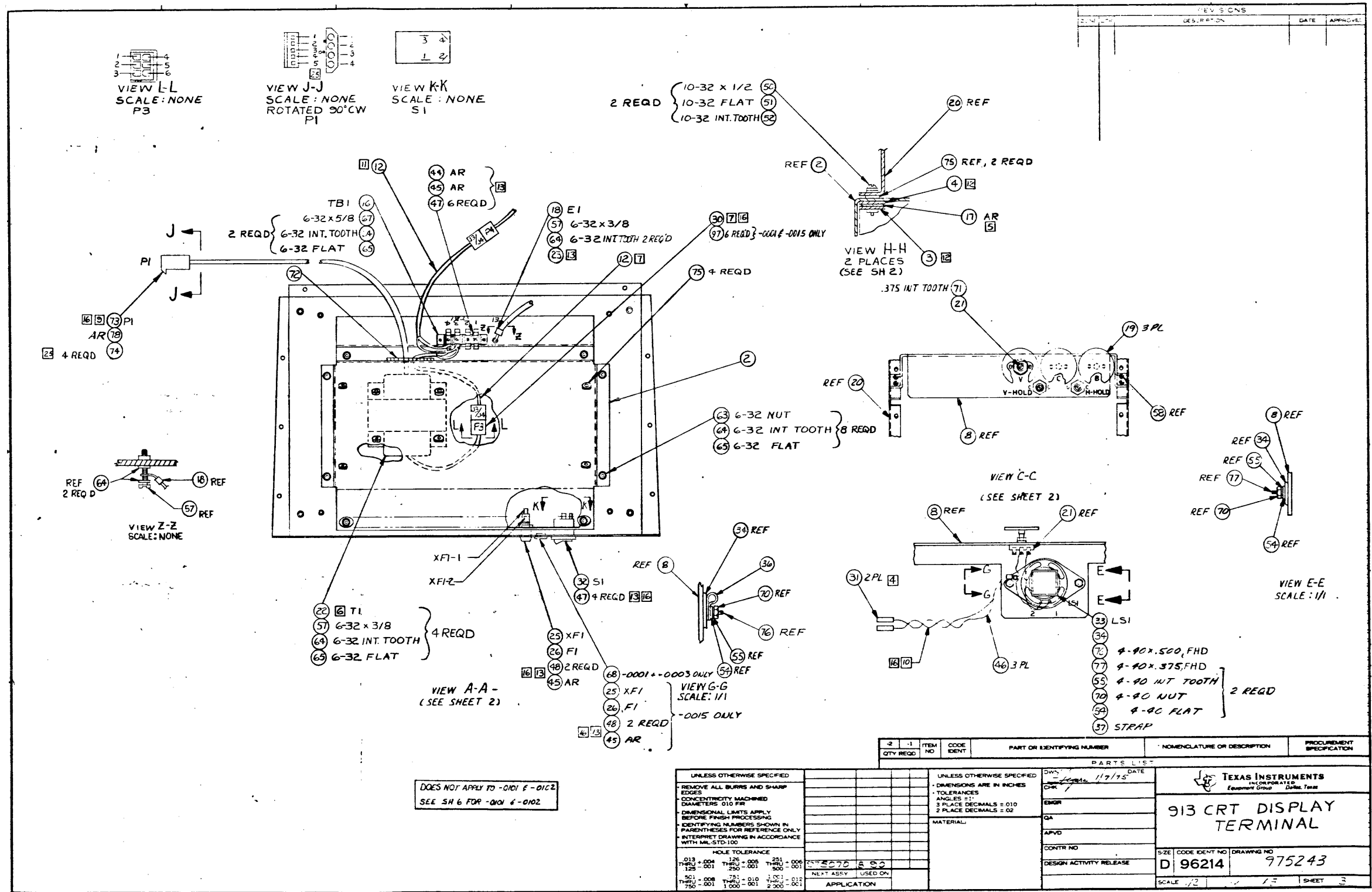
REVISIONS			
ZONE	NO	DESCRIPTION	DATE

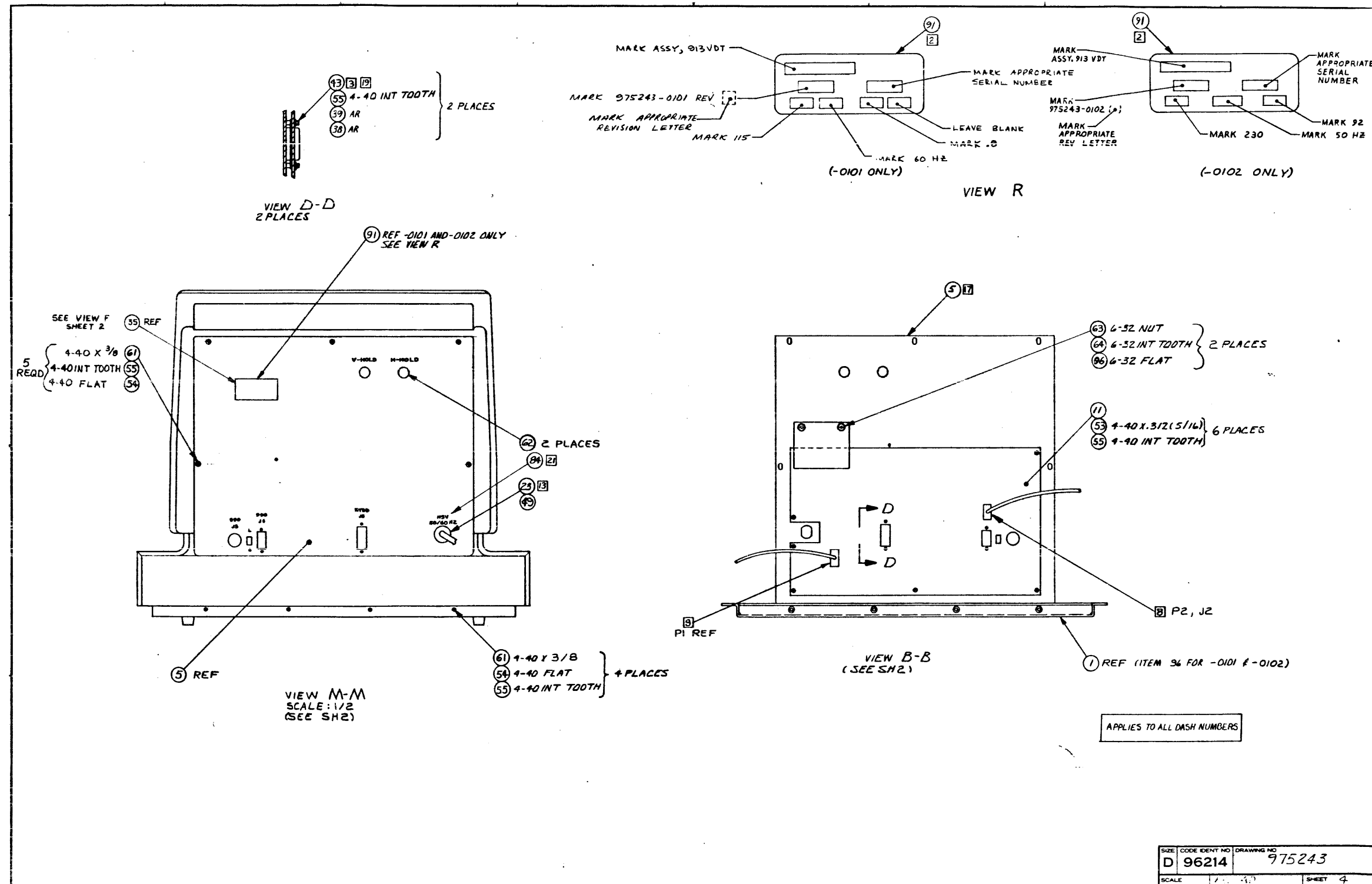
DOES NOT APPLY TO -0101 & -0102
SEE SHEET 5 FOR -0101 & -0102

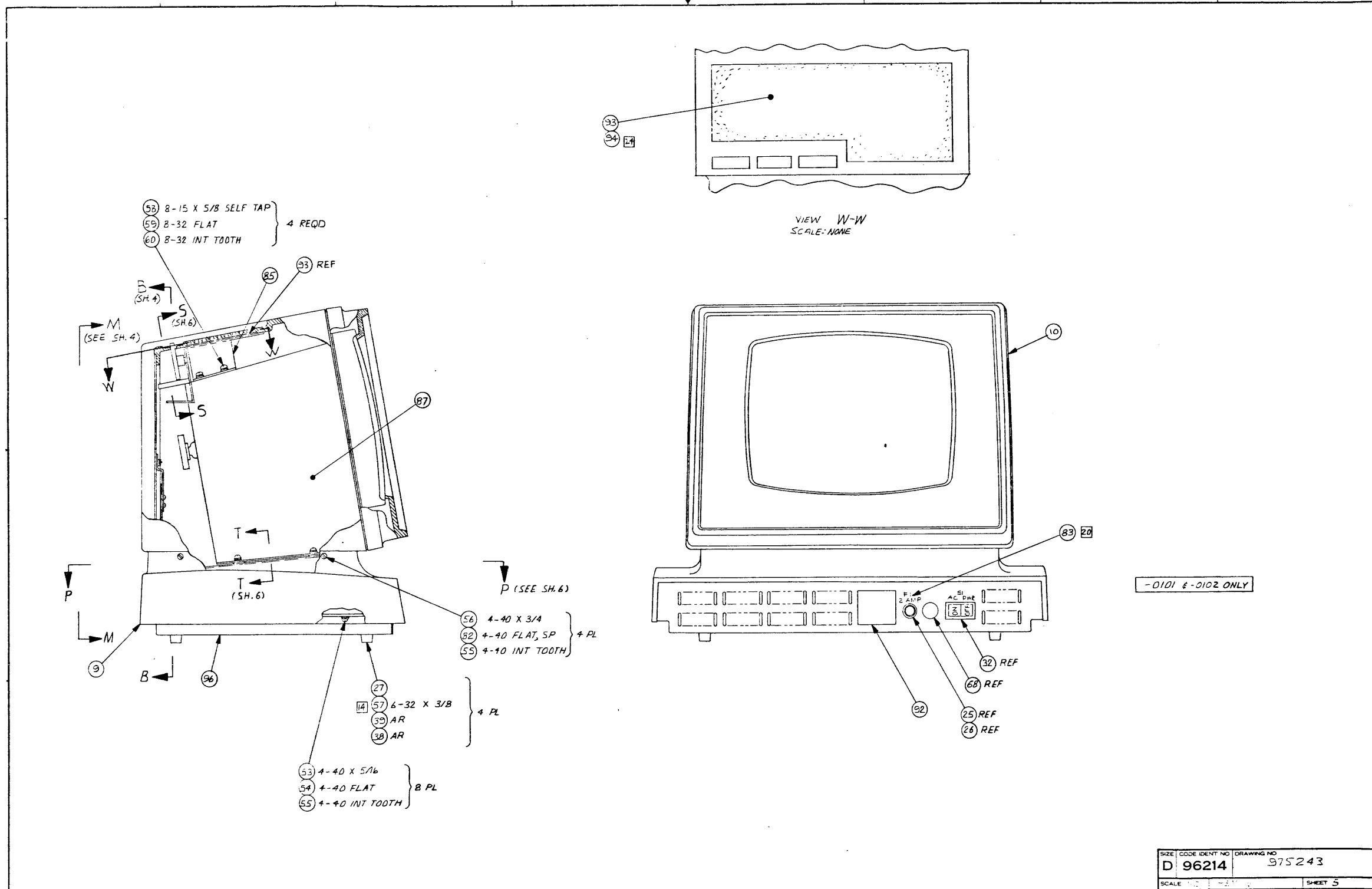
QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

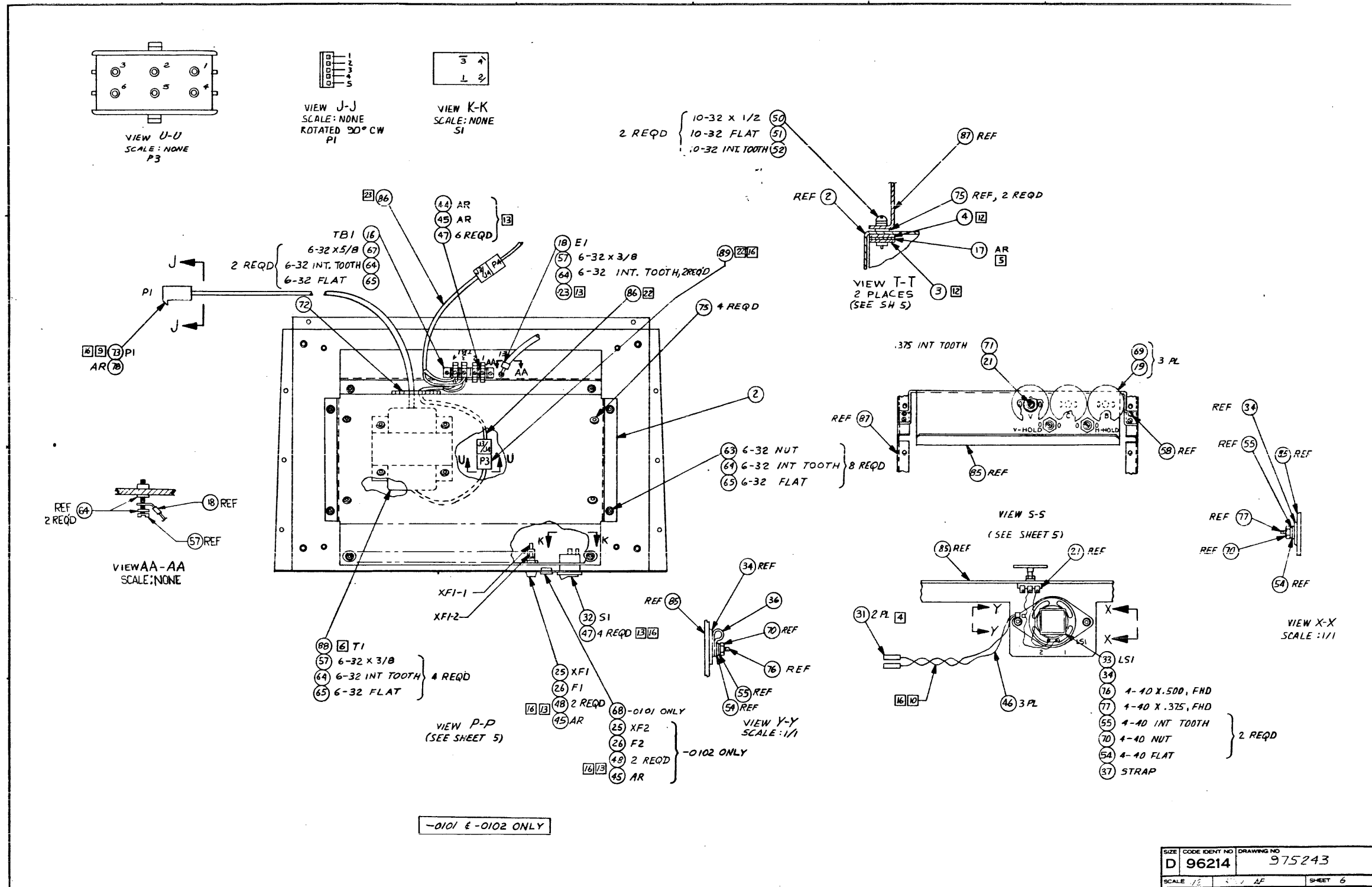
UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS AND SHARP EDGES		
CONCENTRICITY MACHINED DIAMETERS .010 FPI		
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING		
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		
HOLE TOLERANCE		
.013 - .004	.125 - .005	.251 - .006
.125 - .001	.250 - .001	.500 - .001
.501 - .008	.750 - .010	1.001 - .011
.750 - .001	1.000 - .001	2.000 - .001

DATE	11/7/75
CHKR	
ENGR	
QA	
APWD	
CONTR NO	
DESIGN ACTIVITY RELEASE	
713 CRT DISPLAY TERMINAL	
SITE CODE IDENT NO	D 96214
DRAWING NO	975243
SCALE	
SHEET	2









TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975243-0001		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0975246-0002	PAN, BOTTOM, 913						
0002	00001.000	EA		0975247-3G01	BRKT, 913						
0003	00002.000	EA		0975245-0001	NUTPLATE, 913						
0004	00002.000	EA		0975244-0001	INSULATOR, 913						
0005	00001.000	EA		0975253-0002	PLATE, REAR, 913						
0008	00001.000	EA		0975458-0001	BRACKET, CONTROL W/O FAN						
0009	00001.000	EA		0975266-0001	HOUSING, LOWER						
0010	00001.000	EA		0975460-0002	HOUSING, UPPER, CRT						
0011	00001.000	EA		0975190-0001	913 CRT POWER SUPPLY ASSY						
0012	00002.000	EA		0975268-0005	CABLE ASSY T81 TO DISPLAY, 115V, UL						
0016	00001.000	EA		0975270-0004	TERMINAL BLOCK						
0016A					T81						
0017	AR	RL		0975271-0001	TABE, MOUNTING						
0018	00001.000	EA		0411324-0002	TERMINAL, LUG, RING TONGUE, NO 6						
0018A					E1						
0019	00003.000	EA		0975350-0001	KNOB, CRT						
0020	00001.000	EA		0974654-0002	VISUAL DISPLAY MODULE, UL	XM -351-46					
0021	00001.000	EA		0972098-0001	RES VAR-500.00 OHMS 1W 30%						
0021A					R1						
0022	00001.000	EA		0975058-0001	TRANSFORMER, POWER						
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 CRT DISPLAY TERMINAL-115V				
APPRO. MFG	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
						8190	LM0975243-0001	AD			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0975243-0001		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0022A					T1						
0023	00001.000	EA		0088035-0005	CORD-GROUND PROMG PLUG POWER SERVICE	BEL - 17407					
0025	00001.000	EA		0232097-0210	HOLDER FUSE PNL MTG W/QIK CONN TERMINALS	BUS -HTA-DD W/QIK C					
0025A					XF1						
0026	00001.000	EA		0410822-0024	FUSE 2.0 A 125V SLOW BLOW UL-APPVD	BUS - MDL					
0026A					F1						
0027	00004.000	EA		0230205-0249	BUMPER BLK PCLYETHYLENE 3/8 HI SCREW MTG	PGD -101-1138					
0030	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT						
0030A					P3						
0031	00002.000	EA		0232142-0003	CONTACT #18-#22 WIRE	AMP -42859-1					
0032	00001.000	EA		0972248-0002	SWITCH,ROCKER-0PST 15 AMPERE 250 VAC	073559-T1G511SBLATE1					
0032A					S1						
0033	00001.000	EA		0539817-0001	LOUDSPEAKER 2-1/2 IN. STD	PHI -AD2070/Z15					
0033A					LS1						
0034	00001.000	EA		0960965-0001	CLAMP, SPEAKER						
0035	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO						
0036	00001.000	EA		0085913-0001	CLAMP						
0037	00020.000	EA		0418212-0040	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	QPL - MS3367-4-9					
0038	AR	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW						
0039	AR	EA		0235182-0002	LOCTITE SEALANT GRADE 242	LOC --242					
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 CRT DISPLAY TERMINAL-115V				
APPRO. MFG	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
							LM0975243-0001	AD			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0975243-0001		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0040	REF	EA		0975276-9901	TEST PROC, 913 CRT DISPLAY TERMINAL-115V						
0043	00004.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0044	00003.000	FT		0538347-5999	WIRE HOOKUP B-18 ANG 19 STR WHITE	JUD - HH0203					
0045	00004.000	FT		0538347-5099	WIRE HOOKUP B-18 ANG 19 STR BK/WH	JUD - HH0203					
0046	00003.000	FT		0538347-4999	WIRE HOOKUP B-20 ANG 19 STR WHITE	JUD - HH0118					
0047	00010.000	EA		0235837-0045	TERMINAL RCPT FASTON 22-18 TIN PLD BRASS	AMP -42599-4 TAPE M					
0048	00002.000	EA		0235837-1000	TERMINAL LUG FASTON INSUL ANG 22-18	AMP -60972-3 TAPE M					
0049	00001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA						
0050	00004.000	EA		0972986-0010	SCREW 10-32 .500 PAN HEAD CRES						
0051	00004.000	EA		0416622-0033	WASHER #10 FLAT	QPL - AN960C10L					
0052	00004.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0053	00014.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES						
0054	00019.000	EA		0416622-0011	WASHER #4 FLAT	QPL - AN960C4L					
0055	00033.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - MS35333-70					
0056	00004.000	EA		0972988-0019	SCREW 4-40 X .750 PAN HEAD CRES						
0057	00009.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES						
0058	00004.000	EA		0972683-0011	SCREW 8-18 X 3/8 THD FRM, SLOT HX MSR HD						
0059	00004.000	EA		0416622-0024	WASHER #8 FLAT	QPL - AN960C8L					
0060	00004.000	EA		0411100-0072	LOCKWASHER #8 INTERNAL TOOTH CRES	QPL - MS35333-72					
0061	00009.000	EA		0972988-0015	SCREW 4-40 X .375 PAN HEAD CRES						
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 CRT DISPLAY TERMINAL-115V				
APPRO. MFG	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
							LM0975243-0001	AD			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0975243-0001		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0062	00002.000	EA		0410958-0003	PLUG, PROTECTIVE, DUST	GCN --H310-F					
0063	00010.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6					
0064	00018.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0065	00014.000	EA		0411027-0805	WASHER, FLAT, .156 ID X .312 OD X .035 THK						
0067	00002.000	EA		0972988-0031	SCREW 6-32 X .625 PAN HEAD CRES						
0068	00001.000	EA		0975279-0009	PLUG, HOLE						
0070	00002.000	EA		0416453-0021	NUT, PLAIN, 4-40 UNC-2B HEX, CRES, SMALL	QPL - NAS671-C4					
0071	00001.000	EA		0410894-0038	LOCKWASHER 3/8 INTERNAL TOOTH CRES	SHA - 1720-02					
0072	00030.500	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085						
0073	00001.000	EA		0972415-0004	CONNECTOR, PWB-SOCKET						
0073A					P1						
0075	00004.000	EA		0532720-0005	WASHER, NM-SHLDR, #10						
0076	00001.000	EA		0972990-0016	SCREW 4-40 X .500 FLT HEAD CRES						
0077	00001.000	EA		0972990-0014	SCREW 4-40 X .375 FLT HEAD CRES						
0078	00000.600	FT		0972437-0001	SLEEVE, PVC .125 ID .025 WALL	SEE - TI DRAWING					
0079	REF	EA		0975272-9901	WIRE LIST, 913 CRT DISPLAY TERMINAL-115V						
0080	REF	EA		0975277-9901	DIAG, 913 CRT DISPLAY TERMINAL-115V						
0082	00004.000	EA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRES	QPL - MS15795-803					
0096	00002.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L					
0097	00006.300	EA		0972576-0001	CONTACT, PIN						
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 CRT DISPLAY TERMINAL-115V				
APPRO. MFG	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
							LM0975243-0001	AD			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975243-0003		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0975246-0001	PAN, BOTTOM, 913						
0002	0001.000	EA		0975247-0001	BRKT, 913						
0003	0002.000	EA		0975245-0001	NUTPLATE, 913						
0004	0002.000	EA		0975244-0001	INSULATOR, 913						
0005	0001.000	EA		0975253-0001	PLATE, REAR						
0008	0001.000	EA		0975458-0001	BRACKET, CONTROL W/O FAN						
0009	0001.000	EA		0975266-0001	HOUSING, LOWER						
0010	0001.000	EA		0975460-0003	HOUSING, UPPER, CRT						
0011	0001.000	EA		0975190-0001	913 CRT POWER SUPPLY ASSY						
0012	0002.000	EA		0975268-0005	CABLE ASSY T81 TO DISPLAY, 115V, UL						
0016	0001.000	EA		0975270-0004	TERMINAL BLOCK						
0016					T81						
0017	AR	RL		0975271-0001	TAPE, MOUNTING						
0018	0001.000	EA		0411324-0002	TERMINAL LUG, RING TONGUE, NO 6						
0018A					E1						
0019	0003.000	EA		0975350-0001	KNOB, CRT						
0020	0001.000	EA		0974654-0002	VISUAL DISPLAY MODULE, UL	KH -351-46					
0021	0001.000	EA		0972098-0001	RES VAR-500.00 OHMS 1W 30%						
0021A					R1						
0022	0001.000	EA		0975058-0001	TRANSFORMER, POWER						
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 913 CRT RAMADA CLUSTER											
APP'D MFC DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0975243-0003 AD											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0975243-0003		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0022A					T1						
0023	0001.000	EA		0088035-0005	CORD-GROUND PRNG PLUG POWER SERVICE	BEL - 17407					
0025	0001.000	EA		0232097-0210	HOLDER FUSE PNL MTG W/QIK CONN TERMINALS	BUS -HTA-DD W/QIK					
0025A					XF1						
0026	0001.000	EA		0410822-0024	FUSE 2.0 A 125V SLOW BLOW UL-APPVD	BUS - MDL					
0026A					F1						
0027	0004.000	EA		0230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD -101-1138					
0030	0001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT						
0030A					P3						
0031	0002.000	EA		0232142-0003	CONTACT #18-822 WIRE	AMP -42659-1					
0032	0001.000	EA		0972248-0002	SWITCH-ROCKER-DPST 15 AMPERE 250 VAC	073559-165115BLXTE1					
0032A					S1						
0033	0001.000	EA		0539817-0001	LOUDSPEAKER 2-1/2 IN. STD	PHI -AD2076/215					
0033A					LS1						
0034	0001.000	EA		0960965-0001	CLAMP, SPEAKER						
0035	0001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO						
0036	0001.000	EA		0085913-0001	CLAMP						
0037	0002.000	EA		0418212-0040	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	QPL - MS3367-4-9					
0038	AR	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW						
0039	AR	EA		0235182-0002	LOCTITE SEALANT GRADE 242	LOC --242					
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 913 CRT RAMADA CLUSTER											
APP'D MFC DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0975243-0003 AD											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0975243-0003		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0040	REF	EA		0975276-9901	TEST PROC, 913 CRT DISPLAY TERMINAL-115V						
0043	0004.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0044	0003.000	FT		0538347-5999	WIRE HOOKUP 8-18 AWG 19 STR WHITE	JUD - HH0203					
0045	0004.000	FT		0538347-5099	WIRE HOOKUP 8-18 AWG 19 STR BK/WH	JUD - HH0203					
0046	0003.000	FT		0538347-4999	WIRE HOOKUP 8-20 AWG 19 STR WHITE	JUD - HH0118					
0047	0001.000	EA		0235837-0045	TERMINAL RCPT FASTON 22-18 TIN PLD BRASS	AMP -42599-4 TAPE					
0048	0002.000	EA		0235837-1000	TERMINAL LUG FASTON INSUL AWG 22-18	AMP -60972-3 TAPE					
0049	0001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA						
0050	0004.000	EA		0972986-0010	SCREW 10-32 .500 PAN HEAD CRES						
0051	0004.000	EA		0416622-0033	WASHER #10 FLAT	QPL - AN960C10L					
0052	0004.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0053	0001.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES						
0054	0001.000	EA		0416622-0011	WASHER #4 FLAT	QPL - AN960C4L					
0055	0003.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - MS35333-70					
0056	0004.000	EA		0972988-0019	SCREW 4-40 X .750 PAN HEAD CRES						
0057	0009.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES						
0058	0004.000	EA		0972683-0011	SCREW 8-18 X 3/8 THD FRN, SLOT HK WSR HD						
0059	0004.000	EA		0416622-0024	WASHER #8 FLAT	QPL - AN960C8L					
0060	0004.000	EA		0411100-0072	LOCKWASHER #8 INTERNAL TOOTH CRES	QPL - MS35333-72					
0061	0009.000	EA		0972988-0015	SCREW 4-40 X .375 PAN HEAD CRES						
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 913 CRT RAMADA CLUSTER											
APP'D MFC DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0975243-0003 AD											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0975243-0003		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0062	0002.000	EA		0410958-0003	PLUG, PROTECTIVE, DUST	GCM --H310-F					
0063	0001.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-28 HEX CRES, SMALL	QPL - MS671C6					
0064	0001.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0065	0001.000	EA		0411027-0805	WASHER, FLAT, .1561D X .312 OD X .035THK						
0067	0002.000	EA		0972988-0031	SCREW 6-32 X .625 PAN HEAD CRES						
0068	0001.000	EA		0975275-0009	PLUG, HOLE						
0070	0002.000	EA		0416453-0021	NUT, PLAIN, 4-40 UNC-28 HEX, CRES, SMALL	QPL - MS671C4					
0071	0001.000	EA		0410894-0038	LOCKWASHER 3/8 INTERNAL TOOTH CRES	SHA - 1720-02					
0072	0000.500	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085						
0073	0001.000	EA		0972415-0004	CONNECTOR, PWB-SOCKET						
0073A					P1						
0075	0004.000	EA		0532720-0005	WASHER, NM-SHLDR, #10						
0076	0001.000	EA		0972990-0016	SCREW 4-40 X .500 FLT HEAD CRES						
0077	0001.000	EA		0972990-0014	SCREW 4-40 X .375 FLT HEAD CRES						
0078	0000.600	FT		0972437-0001	SLEEVE, PVC .125 ID .025 WALL	SEE - TI DRAWING					
0079	REF	EA		0975272-9901	WIRE LIST, 913 CRT DISPLAY TERMINAL-115V						
0080	REF	EA		0975277-9901	DIAG, 913 CRT DISPLAY TERMINAL-115V						
0082	0004.000	EA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRES	QPL - MS15795-803					
0096	0002.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L					
DRAFTSMAN DATE CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 913 CRT RAMADA CLUSTER											
APP'D MFC DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0975243-0003 AD											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975243-0005		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0975246-0002	PAN,BOTTOM, 913						
0002	0001.000	EA		0975247-0002	BRACKET,913						
0003	0002.000	EA		0975245-0001	NUTPLATE, 913						
0004	0002.000	EA		0975244-0001	INSULATOR, 913						
0005	0001.000	EA		0975265-0001	PLATE, REAR, RAMADA INN						
0008	0001.000	EA		0975458-0001	BRACKET,CONTROL W/O FAN						
0009	0001.000	EA		0975266-0001	HOUSING, LOWER						
0010	0001.000	EA		0975460-0003	HOUSING, UPPER, CRT						
0011	0001.000	EA		0975090-0001	CRT POWER SUPPLY						
0012	00002.000	EA		0975268-0005	CABLE ASSY T81 TO DISPLAY,115V,UL						
0016	0001.000	EA		0975270-0004	TERMINAL BLOCK						
0017	AR	RL		0975271-0001	TAPE, MOUNTING						
0018	0001.000	EA		0411324-0002	TERMINAL,LUG,RING TONGUE,NO 6						
0018A					E1						
0019	00003.000	EA		0975350-0001	KNOB, CRT						
0020	00001.000	EA		0974654-0002	VISUAL DISPLAY MODULE,UL	XM -351-46					
0021	00001.000	EA		0972098-0001	RES VAR-500.00 OHMS 1W 30%						
0021A					R1						
0022	00001.000	EA		0975058-0001	TRANSFORMER, POWER						
DRAFTSMAN		DATE		DESIGN ENGINEER		DATE TITLE					
						913 RAMADA CRT 115V PTU					
APPRO. MFG		DATE		APPRO. PROJECT ENGINEER		DATE		RELEASED		DATE PROJECT NO.	
										PART NUMBER LM0975243-0005	
										REV AD	

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0975243-0005		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0022A					T1						
0023	00001.000	EA		0088035-0005	CORD-GROUND PRONG PLUG POWER SERVICE	BEL - 17407					
0025	00001.000	EA		0232097-0210	HOLDER FUSE PNL MTG W/QIK CONN TERMINALS	BUS -HTA-DD W/QIK C					
0025A					XF1						
0026	00001.000	EA		0410822-0024	FUSE 2.0 A 125V SLOW BLOW UL-APPVD	BUS - MDL					
0026A					F1						
0027	00004.000	EA		0230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD -101-1138					
0030	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT						
0030A					P3						
0031	00002.000	EA		0232142-0003	CONTACT #18-#22 WIRE	AMP -42859-1					
0032	00001.000	EA		0972248-0002	SWITCH,ROCKER-0PST 15 AMPERE 250 VAC	073559-116511SBLXTE1					
0032A					S1						
0033	00001.000	EA		0539817-0001	LOUDSPEAKER 2-1/2 IN. STD	PHI -AD2070/215					
0033A					LS1						
0034	00001.000	EA		0960965-0001	CLAMP,SPEAKER						
0035	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO						
0036	00001.000	EA		0085913-0001	CLAMP						
0037	00020.000	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL - M53367-4-9					
0038	AR	TU		0415804-0011	SURFACE PRIMER,COMPOND GRADE T YELLOW						
0039	AR	EA		0235182-0002	LOCTITE SEALENT GRADE 242	LOC --242					
DRAFTSMAN		DATE		DESIGN ENGINEER		DATE TITLE					
						913 RAMADA CRT 115V PTU					
APPRO. MFG		DATE		APPRO. PROJECT ENGINEER		DATE		RELEASED		DATE PROJECT NO.	
										PART NUMBER LM0975243-0005	
										REV AD	

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0975243-0005		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0040	REF	EA		0974662-9901	TEST PROCEDURE,PTU TERMINAL						
0043	00004.000	EA		0406769-0001	SCREW,SPECIAL,CONNECTOR LOCKING	CIE - D20418-2					
0044	00003.000	FT		0538347-5999	WIRE HOOKUP 8-18 AWG 19 STR WHITE	JUD - HH0203					
0045	00004.000	FT		0538347-5099	WIRE HOOKUP 8-18 AWG 19 STR BK/WH	JUD - HH0203					
0046	00003.000	FT		0538347-4999	WIRE HOOKUP 8-20 AWG 19 STR WHITE	JUD - HH0118					
0047	00010.000	EA		0235837-0045	TERMINAL RCPT FASTCN 22-18 TIN PLD BRASS	AMP -42599-4 TAPE F					
0048	00002.000	EA		0235837-1000	TERMINAL LUG FASTCN INSUL AWG 22-18	AMP -60972-3 TAPE M					
0049	00001.000	EA		0454990-0025	BUSHING,STR RLF-.325-.36 WIRE .625 DIA						
0050	00004.000	EA		0972986-0010	SCREW 10-32 .500 PAN HEAD CRES						
0051	00004.000	EA		0416622-0033	WASHER #10 FLAT	QPL - AN960C10L					
0052	00004.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0053	00014.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES						
0054	00019.000	EA		0416622-0011	WASHER #4 FLAT	QPL - AN960C4L					
0055	00033.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - M535333-70					
0056	00004.000	EA		0972988-0019	SCREW 4-40 X .750 PAN HEAD CRES						
0057	00009.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES						
0058	00004.000	EA		0235071-6500	SCREW 8-15X5/8 SELF-TAP BH						
0059	00004.000	EA		0416622-0024	WASHER #8 FLAT	QPL - AN960C8L					
0060	00004.000	EA		0411100-0072	LOCKWASHER #8 INTERNAL TOOTH CRES	QPL - M535333-72					
0061	00009.000	EA		0972988-0015	SCREW 4-40 X .375 PAN HEAD CRES						
DRAFTSMAN		DATE		DESIGN ENGINEER		DATE TITLE					
						913 RAMADA CRT 115V PTU					
APPRO. MFG		DATE		APPRO. PROJECT ENGINEER		DATE		RELEASED		DATE PROJECT NO.	
										PART NUMBER LM0975243-0005	
										REV AD	

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0975243-0005		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0062	00002.000	EA		0410958-0003	PLUG,PROTECTIVE,DUST	GCN --H310-F					
0063	00010.000	EA		0416453-0022	NUT,PLAIN 6-32 UNC-2B HEX CRES,SMALL	QPL - M5671C6					
0064	00018.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - M535333-71					
0065	00016.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L					
0067	00002.000	EA		0972988-0031	SCREW 6-32 X .625 PAN HEAD CRES						
0068	00001.000	EA		0975279-0009	PLUG, MOLE						
0069	00003.000	EA		0411121-0010	SETScrew 4-40 UNC-3A X .188 CUP POINT	QPL - M551021-10					
0070	00002.000	EA		0416453-0021	NUT,PLAIN,4-40 UNC-2B HEX,CRES,SMALL	QPL - M5671-C4					
0071	00001.000	EA		0410894-0038	LOCKWASHER 3/8 INTERNAL TOOTH CRES	SHA - 1720-02					
0072	00000.500	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085						
0073	00001.000	EA		0539416-0036	CONNECTOR,SOCKET,4 CKT						
0073A					P1						
0074	00004.000	EA		0972176-0004	CONTACT,SOCKET						
0075	00004.000	EA		0532720-0005	WASHER, NM-SHLDR, #10						
0076	00001.000	EA		0972990-0016	SCREW 4-40 X .500 FLT HEAD CRES						
0077	00001.000	EA		0972990-0014	SCREW 4-40 X .375 FLT HEAD CRES						
0078	00000.600	FT		0972437-0001	SLEEVE,PVC .125 ID .025 WALL	SEE - TI DRAWING					
0079	REF	EA		0975391-9901	W/L,RAMADA CRT DISPL TERM						
0080	REF	EA		0975392-9901	ELEC SCHEM DIAG RAMADA CRT DISPL TERM						
0082	00004.000	EA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRES	QPL - M515755-803					
DRAFTSMAN		DATE		DESIGN ENGINEER		DATE TITLE					
						913 RAMADA CRT 115V PTU					
APPRO. MFG		DATE		APPRO. PROJECT ENGINEER		DATE		RELEASED		DATE PROJECT NO.	
										PART NUMBER LM0975243-0005	
										REV AD	

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975243-0015		REV AD	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	EA		0975246-0002	PAN,BOTTOM, 913							
0002	EA		0975247-0001	BRKT, 913							
0003	EA		0975245-0001	NUTPLATE, 913							
0004	EA		0975244-0001	INSULATOR, 913							
0005	EA		0975253-0002	PLATE, REAR, 913							
0008	EA		0975458-0001	BRACKET,CONTROL W/C FAN							
0009	EA		0975266-0001	HOUSING, LOWER							
0010	EA		0975463-0002	HOUSING,UPPER,CRT							
0011	EA		0975190-0001	913 CRT POWER SUPPLY ASSY							
0012	EA		0975268-0006	CABLE ASSY T01 TO DISPLAY, 230V, UL							
0016	EA		0975270-0004	TERMINAL BLOCK							
0016A				T01							
0017	AR	RL	0975271-0001	TAPE, MOUNTING							
0018	EA		0411324-0002	TERMINAL,LUG,RING TONGUE,NO 6							
0018A				E1							
0019	EA		0975350-0001	KNOB, CRT							
0020	EA		0974654-0002	VISUAL DISPLAY MODULE,UL	XN -351-46						
0021	EA		0972098-0001	RES VAR-500.00 OHMS 1W 30%							
0021A				R1							
0022	EA		0975050-0001	TRANSFORMER, POWER							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 CRT DISPLAY TERMINAL-230V 50HZ			
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	LM0975243-0015 AD			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0975243-0015		REV AD	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0022A				T1							
0023	EA		0973598-0001	POWER CORD, 250V 15A (ALTERED ITEM)							
0025	EA		0232097-0210	HOLDER FUSE PNL MTG W/QIK COMM TERMINALS	BUS -HTA-DD W/QIK						
0025A				XF1 XF2							
0026	EA		0410822-0019	FUSE 1.0 A 250V SLOW BLOW UL-APPVD	BUS - MDL						
0026A				F1 F2							
0027	EA		0230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD -101-1138						
0030	EA		0972575-0001	CONNECTOR CAP, 6 CKT							
0030A				P3							
0031	EA		0232142-0003	CONTACT #18-#22 WIRE	AMP -42859-1						
0032	EA		0972248-0002	SWITCH,ROCKER-DPST 15 AMPERE 250 VAC	073559-T16511SBLXTE1						
0032A				S1							
0033	EA		0539817-0001	LOUDSPEAKER 2-1/2 IN. STD	PHI -AD2070/Z15						
0033A				LS1							
0034	EA		0960965-0001	CLAMP,SPEAKER							
0035	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO							
0036	EA		0085913-0001	CLAMP							
0037	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL - R53367-4-9						
0038	AR	TU	0415804-0011	SURFACE PRIMER,CCMPOUND GRADE T YELLOW							
0039	AR	EA	0235182-0002	LOCTITE SEALENT GRADE 242	LOG --242						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 CRT DISPLAY TERMINAL-230V 50HZ			
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	LM0975243-0015 AD			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0975243-0015		REV AD	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0040	REF		0975276-9901	TEST PROC, 913 CRT DISPLAY TERMINAL-115V							
0043	EA		0406769-0001	SCREW,SPECIAL,CONNECTOR LOCKING	CIE - D20418-2						
0044	FT		0538347-5999	WIRE HOOKUP 8-18 AWG 19 STR WHITE	JUD - HH0203						
0045	FT		0538347-5099	WIRE HOOKUP 8-18 AWG 19 STR BK/WH	JUD - HH0203						
0046	FT		0538347-4999	WIRE HOOKUP 8-20 AWG 19 STR WHITE	JUD - HH0118						
0047	EA		0235836-3090	TERMINAL PRE-INS AWG 22-18 TIN PLT BRASS	AMP -42599-2 LOOSE						
0048	EA		0235837-1000	TERMINAL LUG FASTON INSUL AWG 22-18	AMP -60972-3 TAPE						
0049	EA		0454990-0025	BUSHING,STR RLF-.325-.36 WIRE .625 DIA							
0050	EA		0972986-0010	SCREW 10-32 .500 PAN HEAD CRES							
0051	EA		0416622-0033	WASHER #10 FLAT	QPL - AN960C10L						
0052	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0053	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES							
0054	EA		0416622-0011	WASHER #4 FLAT	QPL - AN960C4L						
0055	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - MS35333-70						
0056	EA		0972988-0019	SCREW 4-40 X .750 PAN HEAD CRES							
0057	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES							
0058	EA		0972683-0011	SCREW 8-18 X 3/8 THD FRM,SLOT HK WSR HD							
0059	EA		0416622-0024	WASHER #8 FLAT	QPL - AN960C8L						
0060	EA		0411100-0072	LOCKWASHER #8 INTERNAL TOOTH CRES	QPL - MS35333-72						
0061	EA		0972988-0015	SCREW 4-40 X .375 PAN HEAD CRES							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 CRT DISPLAY TERMINAL-230V 50HZ			
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	LM0975243-0015 AD			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0975243-0015		REV AD	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0062	EA		0410958-0003	PLUG,PROTECTIVE,DUST	GCN --H310-F						
0063	EA		0416453-0022	NUT,PLAIN 6-32 UNC-2B HEX CRES,SMALL	QPL - NAS671C6						
0064	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71						
0065	EA		0411027-0805	WASHER,FLAT,.156ID X .312 OD X .035THK							
0067	EA		0972988-0031	SCREW 6-32 X .625 PAN HEAD CRES							
0070	EA		0416453-0021	NUT,PLAIN,4-40 UNC-2B HEX,CRES,SMALL	QPL - NAS671-C4						
0071	EA		0410854-0038	LOCKWASHER 3/8 INTERNAL TOOTH CRES	SHA - 1720-02						
0072	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085							
0073	EA		0972415-0004	CONNECTOR, PWB-SOCKET							
0073A				P1							
0075	EA		0532720-0005	WASHER, NM-SHLDR, #10							
0076	EA		0972990-0016	SCREW 4-40 X .500 FLT HEAD CRES							
0077	EA		0972990-0014	SCREW 4-40 X .375 FLT HEAD CRES							
0078	FT		0972437-0001	SLEEVE,PVC .125 ID .025 WALL	SEE - T1 DRAWING						
0079	REF		0975262-9901	WIRE LIST,913CRT DISPLAY TERMINAL, 230V							
0080	REF		0975277-9901	DIAG, 913 CRT DISPLAY TERMINAL-115V							
0082	EA		0411027-J803	WASHER .125 X .253 X .022 FLAT CRES	QPL - MS15795-803						
0083	EA		0975264-0001	DECAL							
0084	EA		0975263-0001	DECAL							
0096	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 CRT DISPLAY TERMINAL-230V 50HZ			
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	LM0975243-0015 AD			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0975243-0015		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0097	00006.000	EA		0972576-0001	CONTACT, PIN						
DRAFTSMAN DATE Ckd. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 913 CRT DISPLAY TERMINAL-230V 50HZ APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0975243-0015 AD											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975243-0101		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	00001.000	EA		0975247-0001	BRKT, 913						
0003	00002.000	EA		0975245-0001	NUTPLATE, 913						
0004	00002.000	EA		0975244-0001	INSULATOR, 913						
0005	00001.000	EA		0975253-0002	PLATE, REAR, 913						
0009	00001.000	EA		0975266-0001	HOUSING, LOWER						
0010	00001.000	EA		0975460-0002	HOUSING, UPPER, CRT						
0011	00001.000	EA		0975190-0001	913 CRT POWER SUPPLY ASSY						
0016	00001.000	EA		0975270-0004	TERMINAL BLOCK						
0016A					T81						
0017	AR	RL		0975271-0001	TAPE, MOUNTING						
0018	00001.000	EA		0411324-0002	TERMINAL, LUG, RING TONGUE, NO 6						
0018A					E1						
0019	00003.000	EA		0975350-0001	KNOB, CRT						
0021	00001.000	EA		0972098-0001	RES VAR-500.00 GHMS 1H 308						
0021A					R1						
0023	00001.000	EA		0088035-0005	CARD-GROUND PRONG PLUG POWER SERVICE	BEL	- 17407				
0025	00001.000	EA		0232097-0210	HOLDER FUSE PNL MTG W/QIK CONN TERMINALS	BUS	-HTA-00 W/QIK				
0025A					XF1						
0026	00001.000	EA		0410822-0024	FUSE 2.0 A 125V SLOW BLOW UL-APPVD	BUS	- MDL				
0026A					F1						
DRAFTSMAN DATE Ckd. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 913 VIDEO DISPLAY TERMINAL, 115V, UL APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0975243-0101 AD											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0975243-0101		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0027	00004.000	EA		0230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD	-101-1138				
0031	00002.000	EA		0232142-0003	CONTACT #18-#22 WIRE	AMP	-42859-1				
0032	00001.000	EA		0972248-0002	SWITCH,ROCKER-0PST 15 AMPERE 250 VAC	073559-T1G511SBLXTE1					
0032A					S1						
0033	00001.000	EA		0539817-0001	LOUDSPEAKER 2-1/2 IN. STD	PHI	-AD2070/Z15				
0033A					LS1						
0034	00001.000	EA		0960965-0001	CLAMP, SPEAKER						
0036	00001.000	EA		0085913-0001	CLAMP						
0037	00020.000	EA		0418212-0040	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	QPL	- MS3367-4-9				
0038	AR	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW						
0039	AR	EA		0235182-0002	LOCTITE SEALANT GRADE 242	LOC	--242				
0040	REF	EA		0975276-9901	TEST PROC, 913 CRT DISPLAY TERMINAL-115V						
0043	00004.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE	- D20418-2				
0044	00003.000	FT		0538347-5999	WIRE HOOKUP 8-18 AWG 19 STR WHITE	JUD	- HH0203				
0045	00004.000	FT		0538347-5099	WIRE HOOKUP 8-18 AWG 19 STR BK/WH	JUD	- HH0203				
0046	00003.000	FT		0538347-4999	WIRE HOOKUP 8-20 AWG 19 STR WHITE	JUD	- HH0118				
0047	00010.000	EA		0235837-0045	TERMINAL RPT FASTON 22-18 TIN PLO BRASS	AMP	-42599-4 TAPE F				
0048	00002.000	EA		0235837-1000	TERMINAL LUG FASTON INSUL AWG 22-18	AMP	-60972-3 TAPE M				
0049	00001.000	EA		045499C-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA						
0050	00004.000	EA		0972986-0010	SCREW 10-32 .500 PAN HEAD CRES						
DRAFTSMAN DATE Ckd. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 913 VIDEO DISPLAY TERMINAL, 115V, UL APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0975243-0101 AD											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0975243-0101		REV AD	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0051	00004.000	EA		0416622-0033	WASHER #10 FLAT	QPL	- AN960C10L				
0052	00004.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0053	00014.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES						
0054	00019.000	EA		0416622-0011	WASHER #4 FLAT	QPL	- AN960C4L				
0055	00033.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL	- MS35333-70				
0056	00004.000	EA		0972988-0019	SCREW 4-40 X .750 PAN HEAD CRES						
0057	00009.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES						
0058	00004.000	EA		0972683-0011	SCREW 8-18 X 3/8 THD FRM, SLOT HX MSR HD						
0059	00004.000	EA		0416622-0024	WASHER #8 FLAT	QPL	- AN960C8L				
0060	00004.000	EA		0411100-0072	LOCKWASHER #8 INTERNAL TOOTH CRES	QPL	- MS35333-72				
0061	00009.000	EA		0972988-0015	SCREW 4-40 X .375 PAN HEAD CRES						
0062	00002.000	EA		0410958-0003	PLUG, PROTECTIVE, DUST	GCN	--H310-F				
0063	00010.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL	- NAS671C6				
0064	00018.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL	- MS35333-71				
0065	00014.000	EA		0411027-0805	WASHER, FLAT, .156ID X .312 OD X .035THK						
0067	00002.000	EA		0972988-0031	SCREW 6-32 X .625 PAN HEAD CRES						
0068	00031.000	EA		0975279-0009	PLUG, HOLE						
0070	00002.000	EA		0416453-0021	NUT, PLAIN, 4-40 UNC-2B HEX, CRES, SMALL	QPL	- NAS671C4				
0071	00001.000	EA		0410854-0038	LOCKWASHER 3/8 INTERNAL TOOTH CRES	SHA	- 1720-02				
0072	00000.500	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK .052 TO .085						
DRAFTSMAN DATE Ckd. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 913 VIDEO DISPLAY TERMINAL, 115V, UL APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0975243-0101 AD											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0975243-0101		REV AD	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0073	0001.000	EA		0972415-0004	CONNECTOR, PWB-SOCKET						
0073A					P1						
0075	0004.000	EA		0532720-0005	WASHER, NM-SHLDR, #10						
0076	0001.000	EA		0972990-0016	SCREW 4-40 X .500 FLT HEAD CRES						
0077	0001.000	EA		0972990-0014	SCREW 4-40 X .375 FLT HEAD CRES						
0078	0000.600	FT		0972437-0001	SLEEVE,PVC .125 ID .025 WALL	SEE	- TI DRAWING				
0080	REF	EA		0975277-9901	DIAG, 913 CRT DISPLAY TERMINAL-115V						
0082	0004.000	EA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRES	QPL	- MS15795-803				
0085	0001.000	EA		0975626-0001	BRACKET,CONTROLS W/O FAN						
0086	0002.000	EA		0975268-0005	CABLE ASSY TB1 TO DISPLAY,115V,UL						
0087	0001.000	EA		0974654-0002	VISUAL DISPLAY MODULE,UL	XN	-351-46				
0088	0001.000	EA		0975058-0003	913 CRT XFMR,POWER						
0089	0001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT						
0089A					P3						
0090	REF	EA		0975256-9901	WIRE LIST,UL CRT DISPLAY TERMINAL						
0091	0001.000	EA		0962571-0004	PLATE, ID, EDP EQUIPMENT						
0092	0001.000	EA		0944475-0002	LABEL,UL WARNING FOR FUSE REPLACEMENT						
0093	0001.000	EA		0975390-0001	PLATE,UPPER HOUSING BAFFLE						
0094	AR	EA		0996069-0003	ADM,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PERSAL	-917-4302				
0095	0001.000	EA		0975246-0003	PAN,BOTTOM,UL913,1976 COLORS						
DRAFTSMAN _____ DATE _____ CED DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ 913 VIDEO DISPLAY TERMINAL, 115V,UL APPD. MFG. _____ DATE _____ APPD. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER _____ REV _____ LM0975243-0101 AD											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0975243-0101		REV AD	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0096	0002.000	EA		0416422-0013	WASHER #6 FLAT	QPL - AM940C6L					
DRAFTSMAN _____ DATE _____ CED DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ 913 VIDEO DISPLAY TERMINAL, 115V,UL APPD. MFG. _____ DATE _____ APPD. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER _____ REV _____ LM0975243-0101 AD											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975243-0102		REV AD	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	0001.000	EA		0975247-0001	BRKT, 913						
0003	0002.000	EA		0975245-0001	NUTPLATE, 913						
0004	0002.000	EA		0975244-0001	INSULATOR, 913						
0005	0001.000	EA		0975253-0002	PLATE, REAR, 913						
0009	0001.000	EA		0975266-0001	HOUSING, LOWER						
0010	0001.000	EA		0975460-0002	HOUSING,UPPER,CRT						
0011	0001.000	EA		0975190-0001	913 CRT POWER SUPPLY ASSY						
0016	0001.000	EA		0975270-0004	TERMINAL BLOCK						
0016A					TB1						
0017	AR	RL		0975271-0001	TAPE, MOUNTING						
0018	0001.000	EA		0411324-0002	TERMINAL,LUG,RING TONGUE,NO 6						
0018A					E1						
0019	0003.000	EA		0975350-0001	KNOB, CRT						
0021	0001.000	EA		0972098-0001	RES.VAR-500.00 OHMS 1W 30%						
0021A					R1						
0023	0001.000	EA		0973598-0001	POWER CORD, 250V 15A (ALTERED ITEM)						
0025	0002.000	EA		0232097-0210	HOLDER FUSE PNL MTG W/QIK CONN TERMINALS	BUS	-HTA-DD W/QIK				
0025A					XF1 XF2						
0026	0002.000	EA		0410822-0019	FUSE 1.0 A 250V SLOW BLOW UL-APPVD	BUS	- MDL				
0026A					F1 F2						
DRAFTSMAN _____ DATE _____ CED DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ 913 VIDEO DISPLAY TERMINAL, 230V APPD. MFG. _____ DATE _____ APPD. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER _____ REV _____ LM0975243-0102 AD											

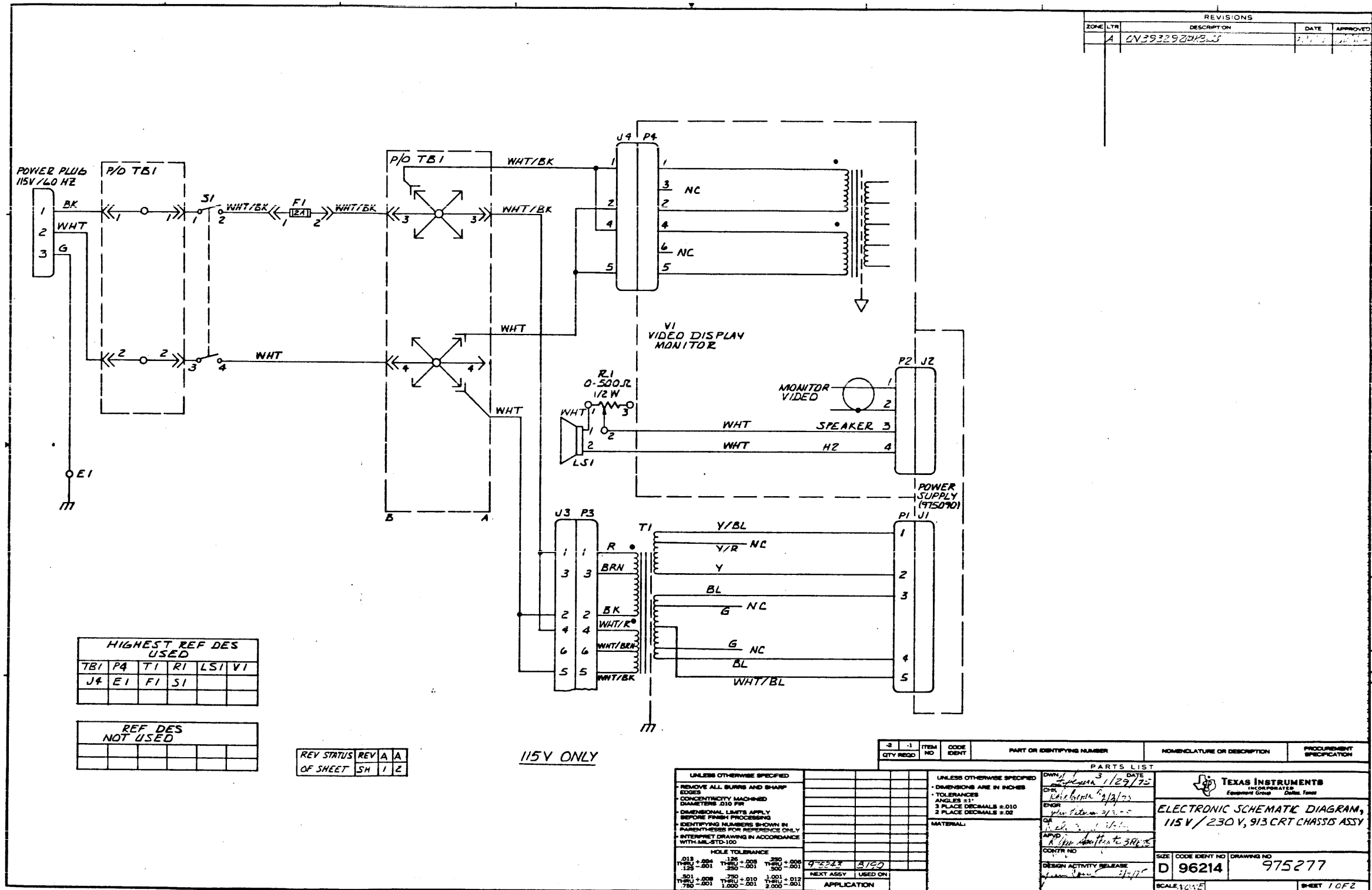
TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0975243-0102		REV AD	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0027	0004.000	EA		0230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD	-101-1138				
0031	0002.000	EA		0232142-0003	CONTACT #18-#22 WIRE	AMP	-42859-1				
0032	0001.000	EA		0972248-0002	SWITCH,ROCKER-DPST 15 AMPERE 250 VAC	073559-T16911SBLATEL					
0032A					S1						
0033	0001.000	EA		0539817-0601	LOUDSPEAKER 2-1/2 IN. STD	PHI	-AD2070/215				
0033A					LS1						
0034	0001.000	EA		0960965-0001	CLAMP,SPEAKER						
0036	0001.000	EA		0085913-0001	CLAMP						
0037	0002.000	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL	- MS3367-4-9				
0038	AR	TU		0415804-0011	SURFACE PRIMER,COMPOUND GRADE T YELLOW						
0039	AR	EA		0235182-0002	LOCTITE SEALANT GRADE 242	LUC	--242				
0040	REF	EA		0975276-9901	TEST PROC, 913 CRT DISPLAY TERMINAL-115V						
0043	0004.000	EA		0406769-3001	SCREW,SPECIAL,CONNECTOR LOCKING	CIE	- D20418-2				
0044	0003.000	FT		0538347-5999	WIRE HOOKUP 8-18 AWG 19 STR WHITE	JUD	- HH0203				
0045	0004.000	FT		0538347-5099	WIRE HOOKUP 8-18 AWG 19 STR BK/WH	JUD	- HH0203				
0046	0003.000	FT		0538347-4999	WIRE HOOKUP 8-20 AWG 19 STR WHITE	JUD	- HH0118				
0047	0001.000	EA		0235837-0045	TERMINAL RCPT FASTON 22-18 TIN PLD BRASS	AMP	-42599-4 TAPE F				
0048	0004.000	EA		0235837-1000	TERMINAL LUG FASTON INSUL AWG 22-18	AMP	-60972-3 TAPE M				
0049	0001.000	EA		0454990-0025	BUSHING,STR RLF-.325-.36 WIRE .625 DIA						
0050	0004.000	EA		0972986-0010	SCREW 10-32 .500 PAN HEAD CRES						
DRAFTSMAN _____ DATE _____ CED DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ 913 VIDEO DISPLAY TERMINAL, 230V APPD. MFG. _____ DATE _____ APPD. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER _____ REV _____ LM0975243-0102 AD											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0975243-0102		REV AD		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0051	00004.000	EA		0416622-0033	WASHER #10 FLAT	QPL - AN960C10L						
0052	00004.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0053	00014.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES							
0054	00019.000	EA		0416622-0011	WASHER #4 FLAT	QPL - AN960C4L						
0055	00033.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - MS35333-70						
0056	00004.000	EA		0972988-0019	SCREW 4-40 X .750 PAN HEAD CRES							
0057	00009.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES							
0058	00004.000	EA		0972603-0011	SCREW 8-18 X 3/8 THD FFM, SLOT HX WSR HD							
0059	00004.000	EA		0416622-0024	WASHER #8 FLAT	QPL - AN960C8L						
0060	00004.000	EA		0411100-0072	LOCKWASHER #8 INTERNAL TOOTH CRES	QPL - MS35333-72						
0061	00004.000	EA		0972988-0015	SCREW 4-40 X .375 PAN HEAD CRES							
0062	00002.000	EA		0410958-0003	PLUG, PROTECTIVE, DUST	GCN --H310-F						
0063	00010.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6						
0064	00018.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71						
0065	00014.000	EA		0411027-0805	WASHER, FLAT, .156 ID X .312 OD X .035 THK							
0066	00005.000	EA		0972988-0017	SCREW 4-40 X .500 PAN HEAD CRES							
0067	00002.000	EA		0972988-0031	SCREW 6-32 X .625 PAN HEAD CRES							
0070	00002.000	EA		0416453-0021	NUT, PLAIN, 4-40 UNC-2B HEX, CRES, SMALL	QPL - NAS671-C4						
0071	00001.000	EA		0410854-0038	LOCKWASHER 3/8 INTERNAL TOOTH CRES	SHA - 1720-02						
0072	00000.500	FT		0087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085							
DRAFTSMAN				DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 VIDEO DISPLAY TERMINAL, 230V		
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	LM0975243-0102 AD			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0975243-0102		REV AD		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0073	00001.000	EA		0972415-0004	CONNECTOR, PMB-SOCKET							
0073A					P1							
0075	00004.000	EA		0532720-0005	WASHER, NM-SHLDR, #10							
0076	00001.000	EA		0972990-0016	SCREW 4-40 X .500 FLT HEAD CRES							
0077	00001.000	EA		0972990-0014	SCREW 4-40 X .375 FLT HEAD CRES							
0078	00001.000	FT		0972437-0001	SLEEVE, PVC .125 ID .025 WALL	SEE - TI DRAWING						
0080	REF	EA		0975277-9901	DIAG, 913 CRT DISPLAY TERMINAL-115V							
0082	00004.000	EA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRES	QPL - MS15795-803						
0083	00001.000	EA		0975264-0001	DECAL							
0084	00001.000	EA		0975263-0001	DECAL							
0085	00001.000	EA		0975626-0001	BRACKET, CONTROLS W/O FAN							
0086	00002.000	EA		0975268-0006	CABLE ASSY T81 TO DISPLAY, 230V, UL							
0087	00001.000	EA		0974654-0002	VISUAL DISPLAY MODULE, UL	XM -351-46						
0088	00001.000	EA		0975058-0003	913 CRT XFMR, POWER							
0089	00001.000	EA		0972575-0001	CONNECTOR CAP, 6 CKT							
0089A					P3							
0090	REF	EA		0975310-9901	WIRING LIST, VIDEO DISPLAY TERMINAL, 230V							
0091	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION							
0092	00001.000	EA		0944475-0002	LABEL, UL WARNING FOR FUSE REPLACEMENT							
0093	00001.000	EA		0975390-0001	PLATE, UPPER HOUSING BAFFLE							
DRAFTSMAN				DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 VIDEO DISPLAY TERMINAL, 230V		
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	LM0975243-0102 AD			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/77		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0975243-0102		REV AD		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0094	AR	EA		0996069-0003	ADM, SOLID, THRMPLSTC 258 BAG ANAEROBIC	PERSAL-917-6302						
0095	00001.000	EA		0975246-0003	PAN, BOTTOM, UL913, 1976 COLORS							
0096	00002.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L						
DRAFTSMAN				DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 VIDEO DISPLAY TERMINAL, 230V		
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	LM0975243-0102 AD			

Chassis Schematic Diagram



REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		0V3932920433	

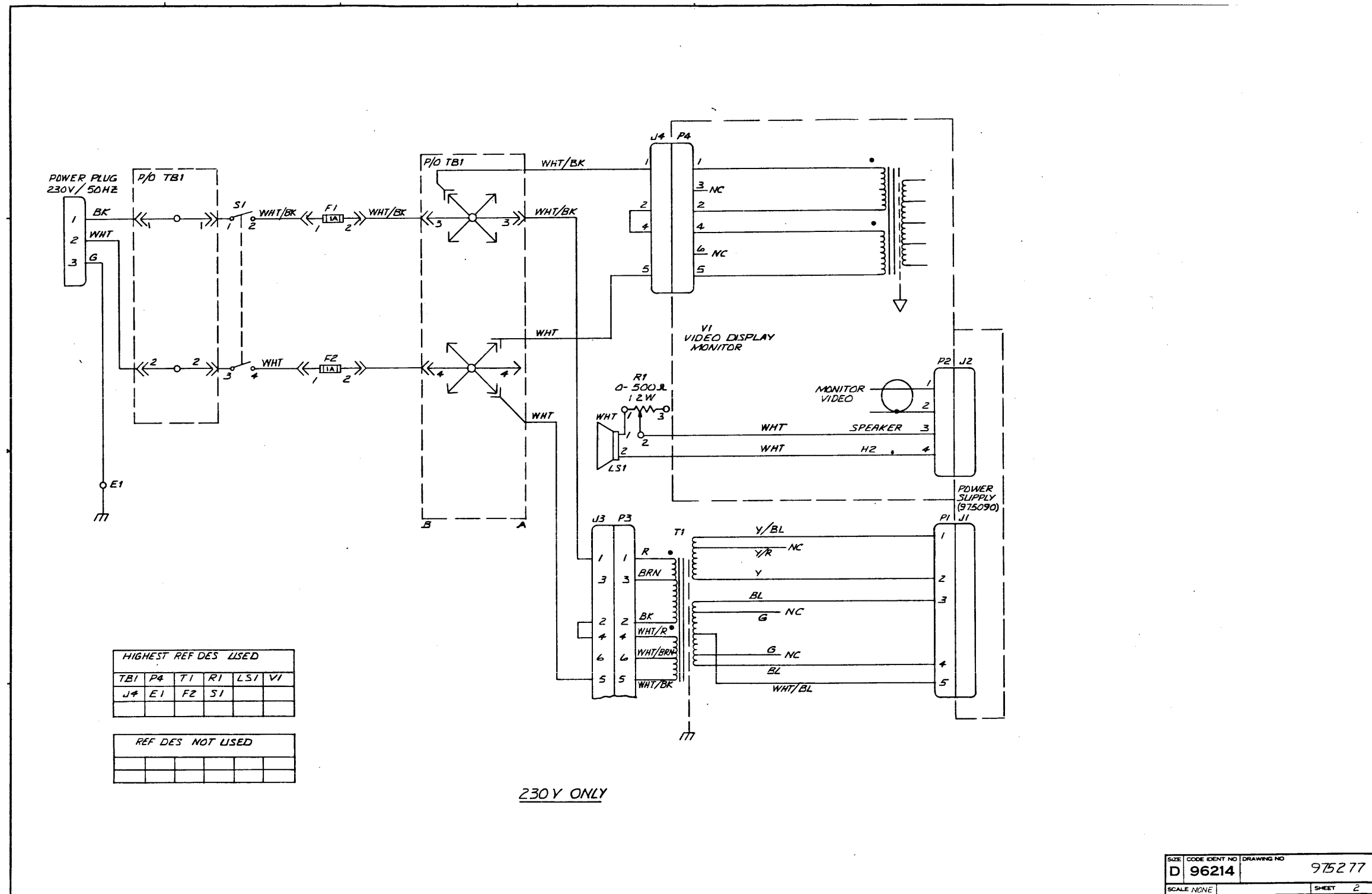
HIGHEST REF DES USED					
TB1	P4	T1	RI	LS1	VI
J4	E1	F1	S1		

REF DES NOT USED					

REV	STATUS	REV	A	A
	SH	1	Z	

115V ONLY

UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED			
REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS 0.10 PER DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100				DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±0.010 2 PLACE DECIMALS ±0.02			
HOLE TOLERANCE .015 +.004 - .125 +.008 .125 -.001 .250 -.001 .500 -.001 .750 -.001 1.000 -.001 1.500 -.001 2.000 -.001				MATERIAL: 9-2224 3160 NEXT ASSY USED ON APPLICATION			
PARTS LIST QTY REQD ITEM NO CODE IDENT PART OR IDENTIFYING NUMBER NOMENCLATURE OR DESCRIPTION PROCUREMENT SPECIFICATION				DATE 1/23/72 DRAWN BY R. J. ... CHECKED BY R. J. ... DATE 1/23/72 CONTR NO DESIGN ACTIVITY RELEASE SCALE 1:1			
TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas				ELECTRONIC SCHEMATIC DIAGRAM, 115V/230V, 913 CRT CHASSIS ASSY			
SIZE D 96214				DRAWING NO 975277			
SHEET 1 OF 2				SCALE 1:1			



A 975272

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
975243	8190	A	CN393294 (C) O. Gu	11-6-76	<i>[Signature]</i>
		B	CN416532 (D) S. Vallego	9-22-76	<i>[Signature]</i>
		C	CN420085 (D) L. Tuttle	5-6-77	<i>[Signature]</i>

NOTES:

- 1 CRIMP ITEM 47 ON WIRE.
- 2 CRIMP ITEM 47 ON BOTH ENDS OF WIRE (ITEM 45).
- 3 CRIMP ITEM 47 ON BOTH ENDS OF WIRE (ITEM 44).
- 4 CRIMP ITEM 47 ON SI-2 WIRE END (ITEM 45) AND CRIMP ITEM 48 ON XFI-1 WIRE END (ITEM 45)
- 5 CRIMP ITEM 48 ON XFI-2 WIRE END (ITEM 45) AND CRIMP ITEM 47 ON TBI-3 WIRE END (ITEM 45).
- ~~6 CRIMP ITEM 31 ON WIRE~~
- ~~7 CRIMP ITEM 29 ON WIRE~~
- 8 SOLDER ONE END OF WIRE TO TERMINAL. CRIMP ITEM 31 ON THE END OF THE WIRE THAT INSERTS INTO P2. INSERT ITEM 31 INTO P2.

REV																					
SHEET																					
REV STATUS OF SHEETS	REV	C C C A																			
	SHEET	1	2	3	4																

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES
 ANGLES ±1°
 3 PLACE DECIMAL ±.010
 2 PLACE DECIMAL ±.02

IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY

INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100

DESIGN ACTIVITY RELEASE

DATE 3/9/75
 DATE 2/4/75
 DATE 6 FEB 75
 DATE 2-26-75
 DATE 1-24-75

TXI TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas

WIRE LIST, CRT DISPLAY TERMINAL

SIZE CODE IDENT NO DRAWING NO
 A 96214 975272

SCALE NONE SHEET 1 OF 4

NOTES: (CONTINUED)

- 9 INSULATE WIRE END WITH ITEM 78 AND PLACE WIRE IN CABLE BUNDLE TO P1.
- 10 CRIMP ITEM 18 ON WIRE
- 11 REMOVE EXISTING CONTACT FROM WIRE THEN CRIMP ITEM 97 ON WIRE.

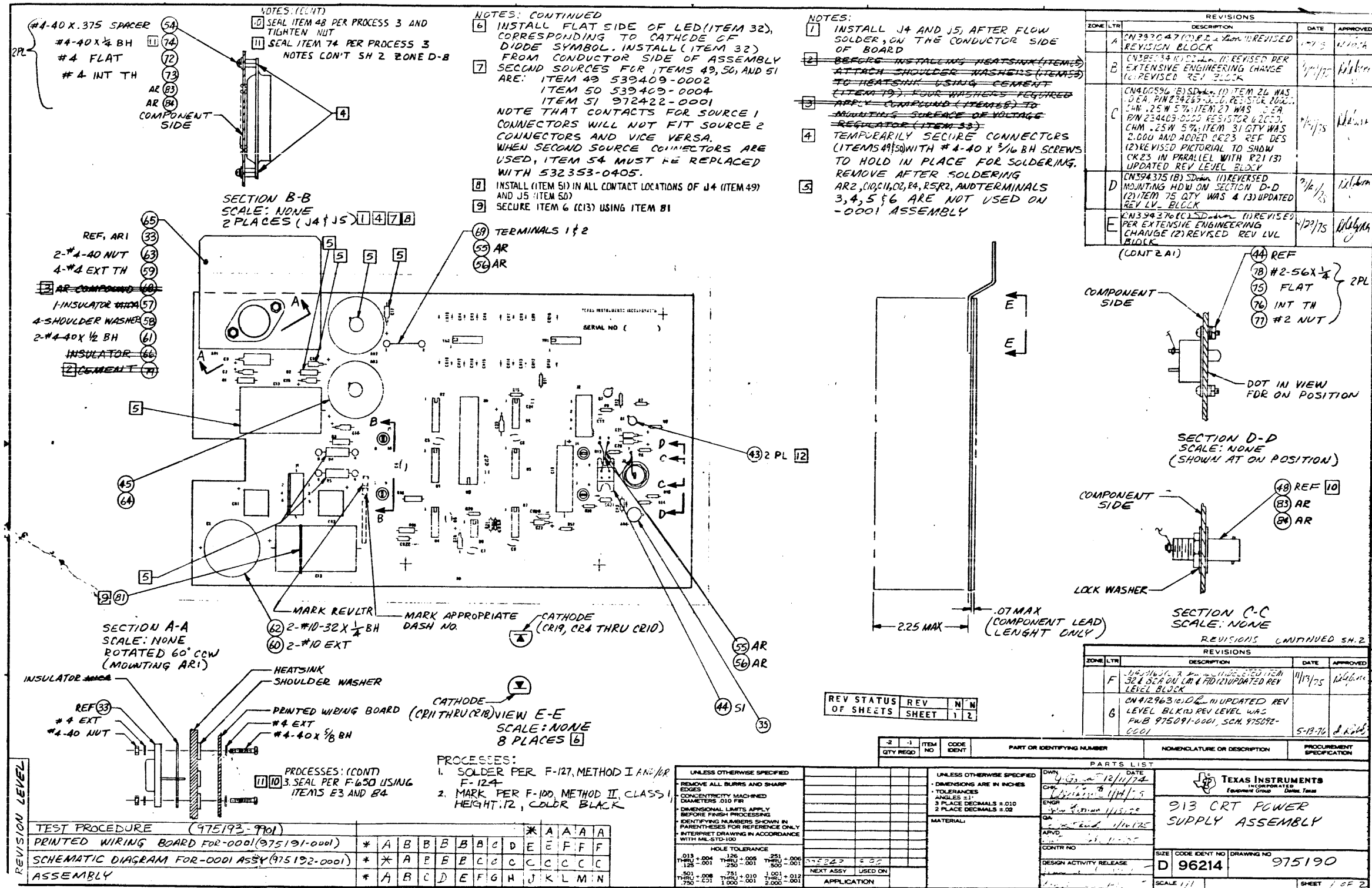
TXI TEXAS INSTRUMENTS INCORPORATED DIGITAL SYSTEMS DIVISION HOUSTON, TEXAS	A	975272	REV C
		SHEET 2	

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PI ITEM NO.
1	BLK				POWER CORD	TB1-1	1	23
2	WHT				POWER CORD	TB1-2	1	23
3	G				POWER CORD	E1	10	23
4	NO 18 WHT/BRN				TB1-1	S1-1	2	45
5	NO 18 WHT/RED				TB1-2	S1-3	3	44
6	NO 18 WHT/ORN				S1-2	XF1-1	4	45
7	NO 18 WHT/BK				XF1-2	TB1-3	5	45
8	NO 18 WHT				S1-4	TB1-4	3	44
9	R FROM T1				T1-R	P3-1	11	22
10	BLK FROM T1				T1-BLK	P3-2	11	
11	WHT/R FROM T1				T1,WHT/R	P3-4	11	
12	WHT/BK FROM T1				T1,WHT/BK	P3-5	11	
13	BRN FROM T1				T1, BRN	P3-3	11	
14	WHT/BRN FROM T1				T1,WHT/BRN	P3-6	11	
15	Y FROM T1				T1,Y	P1-2		
16	YEL/RED				T1,YEL/RED	P1-1		
17	BLU FROM T1				T1, BLU	P1-3		
18	BLU/WHT FROM T1				T1, BLU/WHT	P1-5		
19	BLU FROM T1				T1, BLU	P1-4		22
20	NO 20 WHT				LS1-1	R1-1	SOLDER	46

SIZE A CODE IDENT NO. 96214 DRAWING NO. 975272
 SCALE REV C SHEET 3

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PI ITEM NO.
21	NO 20 WHT				LS1-2	P2-4	8	46
22	NO 20 WHT				R1-2	P2-3	8	46
23	Y/R FROM T1				T1,Y/R	9	9	22
24	GRN FROM T1				T1,GRN	9	9	22
25	GRN FROM T1				T1,GRN	9	9	22
26	NO 20 WHT/BK				J3-1	TB1-3		12
27	NO 20 WHT				J3-2	TB1-4		12
28	NO 20 WHT/BK				J3-4	TB1-3		12
29	NO 20 WHT				J3-5	TB1-4		12
30	NO 20 WHT/BK				J4-1	TB1-3		12
31	NO 20 WHT				J4-2	TB1-4		12
32	NO 20 WHT/BK				J4-4	TB1-3		12
33	NO 20 WHT				J4-5	TB1-4		12

SIZE A CODE IDENT NO. 96214 DRAWING NO. 975272
 SCALE REV A SHEET 4



NOTES: CONT
 2 ITEM 43 IS TO BE MECHANICALLY MACHINE PREPPED PRIOR TO INSERTION

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	H	CN412633 (E) J. J. J. (1) UPDATED REV LEVEL BLOCK (2) ADDED SHEET 2	8-11-76
	J	CN 419539 (D) R. P. (1) UPDATED REV. LEVEL BLOCK ADDED TEST PROCEDURE	10-20-76
	K	CN422103 (C) J. J. J. (1) REV PER EXTENSIVE LM CHANGE (2) UPDATED REV. LVL BLK (3) ITEM 61 CALLOUT WAS 2-54-40 X 5/8 BH	5-18-77
	L	CN417127 (E) J. J. J. (1) UPDATED REV LVL BLK	5-18-77
D-4	M	CN429962 (C) R. P. (1) UPDATED REV LEVEL BLOCK (2) DELETED FLAG NOTE 3 FROM NOTES & F/D (3) DELETED THE WORD MICA FROM BALLOON CALLOUT 57 & IN VIEW A-A (4) ON LM: DELETED ITEM 68; F/N + DESCRIPTION OF ITEM 57 WAS 532445-0004 / INSULATOR MICA	8-7-78
B-4	N	CN442612 (C) R. P. (1) UPDATED REV LEVEL BLOCK (2) ON LM DELETED ITEM 67 (3) ON F/D DELETED BALLOON CALLOUT FOR ITEM 57 (3) ADDED NOTE 12 TO NOTES + F/D @ ITEM 43 BALLOON	8-7-78

SIZE	CODE IDENT NO	DRAWING NO
D	96214	975190
SCALE	REV	SHEET
	N	2

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LMP975190-0001		REV N	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0975191-0001	PWB, 913 CRT POWER SUPPLY						
0002	00001.000	EA		0230972-9001	CAP 6000. MF 20V CASE 1-3/8X2-1/8IN. C1	MAL	-CGS602U020R2C3				
0002A											
0003	00004.000	EA		0972924-0021	CAP FIX TANT SOLID 1.0 MFD 10 % 50 VOLT C2 C14 C15 C23	QPL	-M39303/1-2356				
0003A											
0004	00001.000	EA		0972924-0019	CAP FIX TANT SOLID 22 MFD 10 % 35 VOLT C3	QPL	-M39303/1-2306				
0004A											
0005	00006.000	EA		0230590-9000	CAP .05 MF 12 V 70. % CER TRANSCAP C4 C5 C6 C7 C8 C9	ERT	-5635-000-Y5F05				
0005A											
0006	00001.000	EA		0230950-0110	CAP 1500.MF 30V 10% 152H030M283P 2-1/16" C13	MAL	-TCM152HP030P1X				
0006A											
0007	00001.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V C27	QPL	-CK36RX104K				
0007A											
0008	00001.000	EA		0230917-0010	CAP 200.0 MF 25V 75/-10 C19	SPR	-300-207G025DH2				
0008A											
0009	00002.000	EA		0418356-2368	CAP FIX 4.7 MF 50V 10% TANTALUM SOLID C20 C21	QPL	-M39003/1-2268				
0009A											
0010	00001.000	EA		0230491-9999	CAP .001500 MF 200V 10. % C22	MIL	-CK06BX152K				
0010A											
0011	00001.000	EA		0972929-0394	CAP FIX CERAMIC 680 PF 10 % 200 V	QPL	-M39014/01-1394				
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE J. K. ROSS 7-21-78 913 CRT POWER SUPPLY ASSY APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV 3190 LMP975190-0001 N											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/78		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LMP975190-0001		REV N	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0011A					C24						
0012	00001.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT C25	QPL	-M39303/1-2283				
0012A											
0013	00001.000	EA		0972924-0017	CAP FIX TANT SOLID 1.0 MFD 10 % 35 VOLT C26	SPR	-1533105X9035A				
0013A											
0014	00001.000	EA		0972947-0069	RES FIX 1.5K OHM 5% .5 W CARBON FILM R1	ROH	-R-50				
0014A											
0015	00001.000	EA		0972947-0072	RES FIX 2.0K OHM 5% .5 W CARBON FILM R3	ROH	-R-50				
0015A											
0016	00001.000	EA		0972946-0038	RES FIX 75.0 OHM 5 % .25 W CARBON FILM R6	ROH	-R-25				
0016A											
0017	00002.000	EA		0972946-0082	RES FIX 5.1K OHM 5 % .25 W CARBON FILM R7 R8	ROH	-R-25				
0017A											
0018	00001.000	EA		0972946-0037	RES FIX 68.0 OHM 5 % .25 W CARBON FILM R9	ROH	-R-25				
0018A											
0019	00002.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM R10 R19	ROH	-R-25				
0019A											
0020	00002.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM R11 R14	ROH	-R-25				
0020A											
0021	00001.000	EA		0972946-0061	RES FIX 100 OHM 5 % .25 W CARBON FILM	ROH	-R-25				
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 913 CRT POWER SUPPLY ASSY APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LMP975190-0001 N											

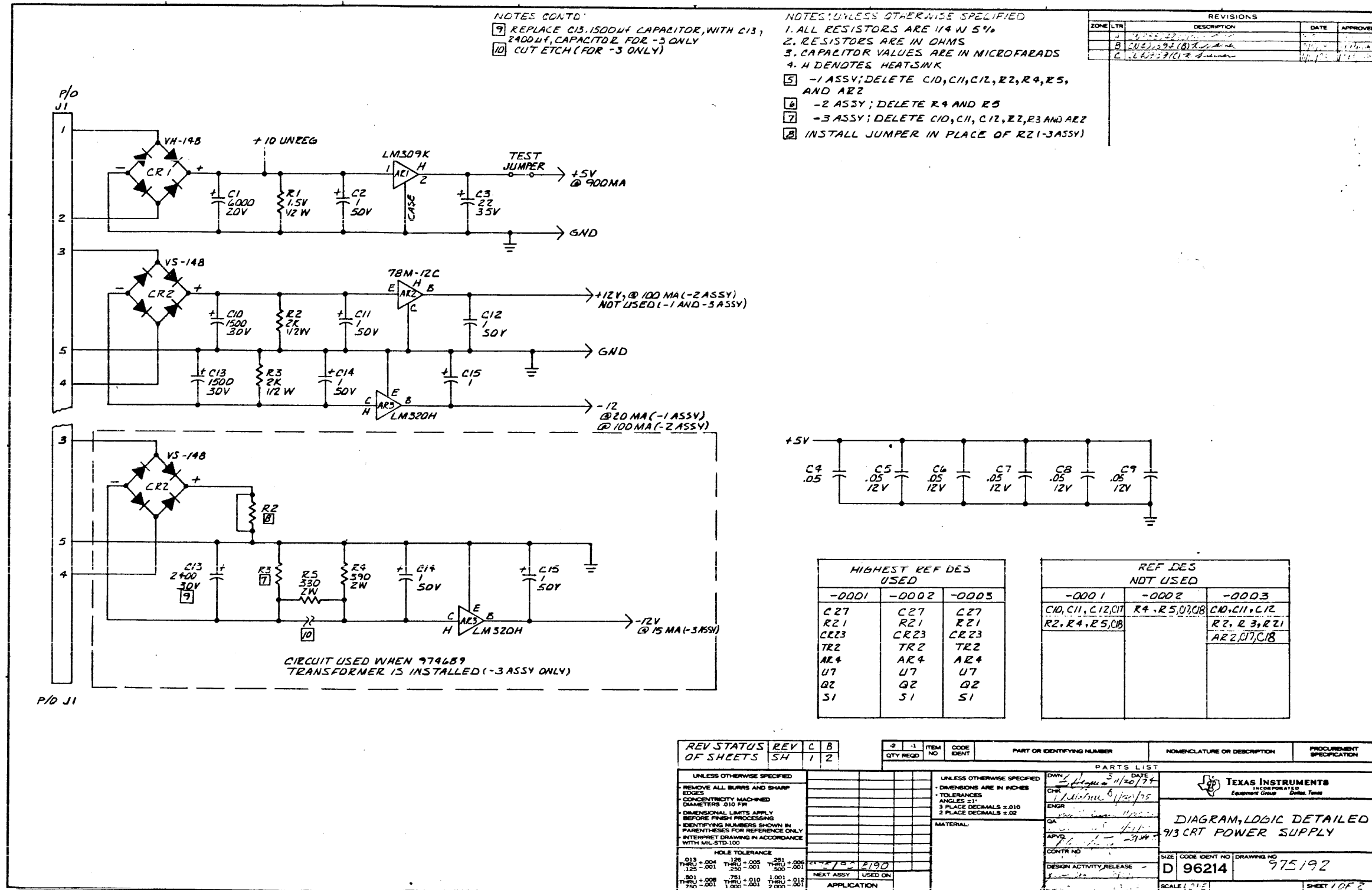
TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/78		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LMP975190-0001		REV N	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021A					R12						
0022	00001.000	EA		0972946-0080	RES FIX 4.3K OHM 5 % .25 W CARBON FILM R13	ROH	-R-25				
0022A											
0023	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM R15	ROH	-R-25				
0023A											
0024	00002.000	EA		0972947-0060	RES FIX 620 OHM 5% .5 W CARBON FILM R16 R18	ROH	-R-50				
0024A											
0025	00001.000	EA		0972947-0093	RES FIX 15 K OHM 5% .5 W CARBON FILM R17	ROH	-R-50				
0025A											
0026	00001.000	EA		0972946-0069	RES FIX 1.5K OHM 5 % .25 W CARBON FILM R20	ROH	-R-25				
0026A											
0027	00001.000	EA		0972946-0117	RES FIX 150K OHM 5 % .25 W CARBON FILM R21	ROH	-R-25				
0027A											
0028	00002.000	EA		0972141-0048	NETWORK, RES. 2.0 K OHM 2 % 14 PIN DIP TR1 TR2	BEC	- 899-1-R2.0K				
0028A											
0029	00002.000	EA		0539823-0001	DIODE, BRIDGE RECTIFIER 6 AMP CR1 CR2	VRA	-VH148				
0029A											
0031	00003.000	EA		0972932-0001	DIODE, IN914B SWITCHING 75V PIV 75MA 4MS TI	TI	- IN914B				
0031A											
0032	00016.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220 CR3 CR20 CR23						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 913 CRT POWER SUPPLY ASSY APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LMP975190-0001 N											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/78		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LMP975190-0001		REV N	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0032A					CR4, CR5, CR6, CR7, CR8, CR9,						
0032B					CR10, CR11, CR12, CR13, CR14,						
0032C					CR15, CR16, CR17, CR18, CR19						
0033	00001.000	EA		0537989-0001	REGULATOR, VOLTAGE 5VOLTS LM309K	NSC	-LM309K				
0033A					AR1						
0034	00001.000	EA		0972872-0003	NETWORK, LM 320H-12 VOLTAGE REGULATOR	-	-				
0034A					AR3						
0035	00001.000	EA		0222225-0311	NETWORK LM311H						
0035A					AR4						
0036	00002.000	EA		0222222-7175	NETWORK SN74175N						
0036A					U1 U2						
0037	00001.000	EA		0971001-0002	NETWORK ASYNCHRONOUS DATA INTERFACE	-	-	-TI-TMS6011NC			
0037A					U3						
0038	00001.000	EA		0222222-7406	NETWORK SN7406N						
0038A					U4						
0039	00001.000	EA		0222222-7474	NETWORK SN7474N	-	-	-SN7474N			
0039A					U5						
0040	00001.000	EA		0222222-7132	NETWORK SN74132N						
0040A					U6						
0041	00001.000	EA		0222222-7122	NETWORK SN74122N						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 913 CRT POWER SUPPLY ASSY APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LMP975190-0001 N											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/78		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LMP975190-0001		REV N	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0041A					U7						
0042	00001.000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	ST -NE555V					
0042A					U8						
0043	00002.000	EA		0972955-0001	XSTR 2N2369A, NPN, HIGH SPEED SW, TO-18	MOT - 2N2369A					
0043A					Q1 Q2						
0044	00001.000	EA		0972413-0001	SWITCH, MSS-22						
0044A					S1						
0045	00001.000	FA		0419253-0003	HEATSINK, TRANSISTOR	WAK - 205					
0046	00001.000	FA		0231253-1134	CONNECTOR 4 PIN MHT PLUG	AMP -480134-1					
0046A					J2						
0047	00004.000	EA		0232141-0007	INSERT 42686-1	AMP -42686-1					
0048	00001.000	EA		0231440-0657	CONNECTOR UG-657/U	CIN -UG-657/U					
0048A					J3						
0049	00001.000	EA		0800645-0002	CONNECTOR, RECEPTACLE, ELEC 9 SOCKETS						
0049A					J4						
0050	00001.000	EA		0972077-0002	CONNECTOR, SOCKET 15 S	DAC -15S-F0					
0050A					J5						
0051	00024.000	EA		0800655-0006	CONTACT, CONNECTOR, ELEC, .711 LONG						
0052	00001.000	EA		0972414-0004	CONNECTOR, 5 PIN MOLEX						
0052A					J1						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 CRT POWER SUPPLY ASSY			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LMP975190-0001		REV N	

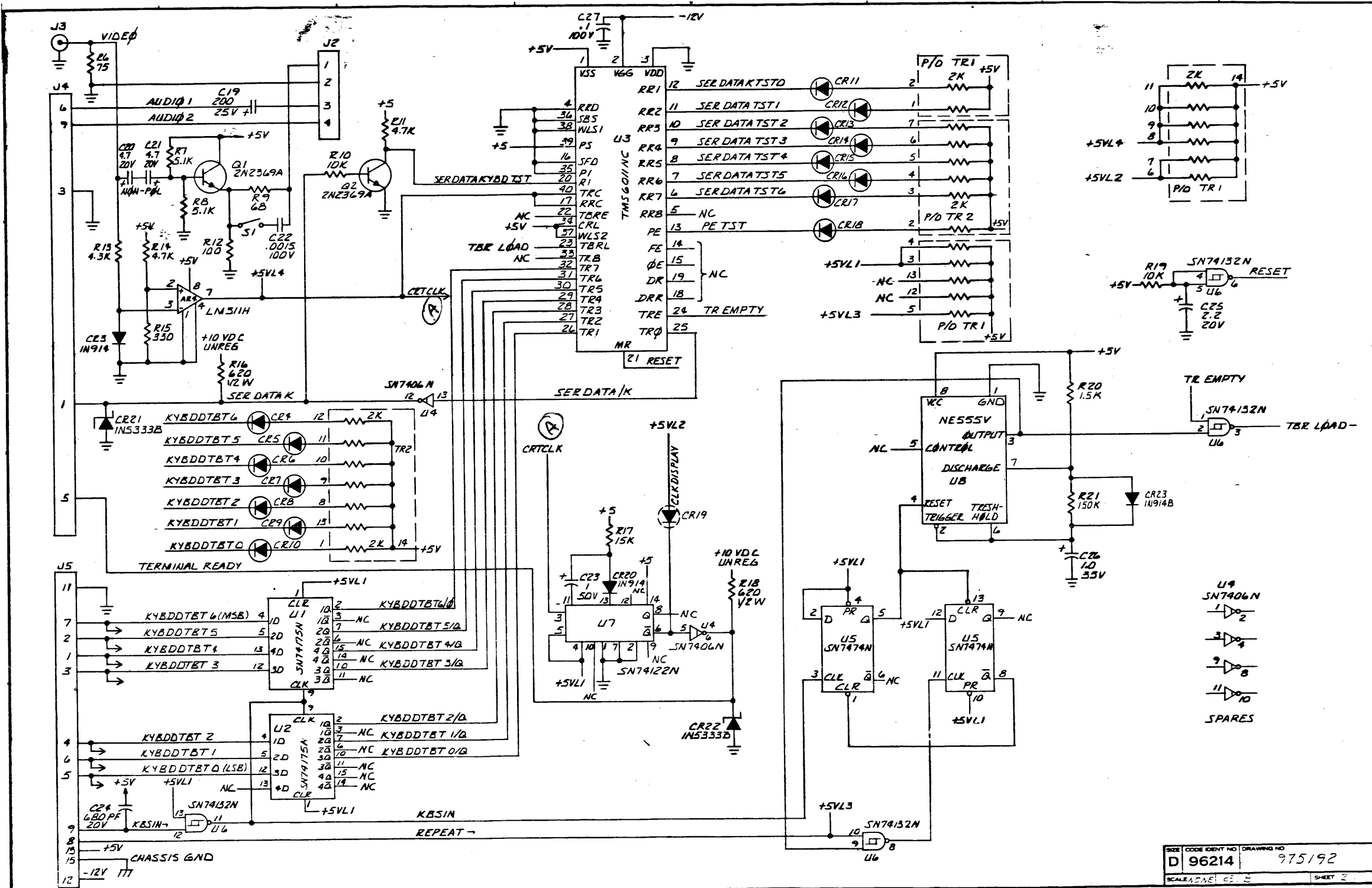
TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/78		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LMP975190-0001		REV N	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0053	00002.000	EA		0972118-0001	DIODE, IN5339B						
0053A					CR21 CR22						
0054	00004.000	EA		0532353-0404	NUT, SLEEVE-CRES #4-40 X 3/16 .250						
0055	AR	FT		0411400-0022	WIRE 22AWG ELETRO-TIN-PLATED, COPPER						
0056	AR	FT		0410499-0007	INSULATION SLEEVING, TEFLON #20 NATURAL	QPL -81349					
0057	00001.000	EA		0996521-0003	INSULATOR GRAY .009 THERMALLY COND	055285-7403-09FR-04					
0058	00004.000	EA		0532720-0004	WASHER, NONMETALLIC-SHOULDERED, #8						
0059	00004.000	EA		0411101-0057	LOCKWASHER # 4 EXTERNAL TOOTH CRES	QPL - MS35335-57					
0060	00002.000	EA		0411101-0060	LOCKWASHER #10 EXTERNAL TOOTH CRES	---					
0061	00002.000	EA		0972988-0017	SCREW 4-40 X .500 PAN HEAD CRES						
0062	00002.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES						
0063	00002.000	EA		0416453-0021	NUT, PLAIN, 4-40 UNC-2B HEX, CRES, SMALL	QPL - MS4571-C4					
0064	00001.000	EA		0184262-0001	PAD, MOUNTING, TD-5, 4 LEAD, RED	THR - 7717-5					
0065	00001.000	EA		0975241-0001	BRACKET, HEATSINK, 913						
0069	00002.000	EA		0411226-0002	TERMINAL, STUD						
0070	REF	FA		0975192-9901	DIAGRAM, LOGIC, 913 CRT POWER SUPPLY						
0071	REF	FA		0975193-9901	TEST PROC, UT 913 CRT POWER SUPPLY						
0072	00004.000	FA		0416622-0011	WASHER #4 FLAT	QPL - A4960C4L					
0073	00004.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - MS35333-70					
0074	00004.000	EA		0972988-0013	SCREW 4-40 X .250 PAN HEAD CRES						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 CRT POWER SUPPLY ASSY			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LMP975190-0001		REV N	

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/78		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LMP975190-0001		REV N	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0075	00002.000	EA		0416622-0020	WASHER, #3L FLAT .105 ID X .250 OD X .016 THK	QPL - A4960C3L					
0076	00002.000	EA		0411100-0069	LOCKWASHER #2 INTERNAL TOOTH CRES	QPL - MS35333-69					
0077	00002.000	EA		0411115-0024	NUT, PLAIN 2-56 UNC-2B HEX CRES	QPL - MS35649-224					
0078	00002.000	EA		0972988-0003	SCREW 2-56 X .250 PAN HEAD CRES						
0081	00001.000	FA		0925815-0002	TIE, CABLE						
0083	AR	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW						
0084	AR	EA		0235182-0002	LOCTITE SEALANT GRADE 242	LOC --242					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 CRT POWER SUPPLY ASSY			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LMP975190-0001		REV N	



REV	STATUS	REV	C	B	QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
1	SH	1	2								

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BLURS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 FIM	DIMENSIONS ARE IN INCHES	ANGLES 2:1
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ±.010	2 PLACE DECIMALS ±.02
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	HOLE TOLERANCE	MATERIAL	
013 THRU .004	126 THRU .005	DWN / DATE 5/20/74	
.125 THRU .001	250 THRU .001	CHK / DATE 8/12/75	
.501 THRU .008	751 THRU .010	ENGR / DATE 11/20/75	
.751 THRU .001	1.000 THRU 2.000	GA / DATE 11/20/75	
		APVD / DATE 11/20/75	
		CONTR NO	
		DESIGN ACTIVITY/RELEASE	
		SIZE CODE IDENT NO DRAWING NO	
		D 96214 975192	
		SCALE 1:1	
		SHEET 1 OF 2	



SIZE: D CODE IDENT NO: 96214 DRAWING NO: 975192
 SCALE: AS SHOWN SHEET: 2

VIEW A-A
COVER, ITEM NO. 4 OMITTED FOR CLARITY SH Z

VIEW B-B

NOTES:

- ALIGN ITEMS 1, 2, 3, & 4 SO THAT KEYS OPERATE FREELY
- EXCESS CABLE TO BE LOOPED INSIDE OF BOX
- LOCATE ITEM 15 IN APPROXIMATE CENTER OF ITEM 2
- TYPE LABEL
- TYPE LABEL, -2 ONLY

ZONE	LTN	DESCRIPTION	DATE	APPROVED
A	1	CH 32593 (D) 2-28-74 SH 1111 ADDED NOTE 5 & MARKING NOTE 121 ADDED -ADDED TO LHM	1/28/75	Kelley
B	1	CH 32593 (C) 2-28-74 LHM: (1) ITEM 9 PIN FOR 10001 WAS 97543-0001, ADDED "913" TO DESCR ADDED -0003 TO LHM	2/11/75	Kelley
C	1	CH 32593 (D) 2-28-74 ADDED ITEMS 15 TO F/D AND L/M	2/11/75	Kelley
D	1	CH 32593 (E) 2-28-74 (ADDED ITEM 20 TO LHM & TO L OF DRG)	11/24/75	Kelley
E	1	CH 32593 (F) 2-28-74 (11041-0001 & -0002 LHM ITEM 5 W/ 9746-58-0005)	12/11/75	Kelley
F	1	CH 4075-84 (D) 2-28-74 (1) ADDED ITEM 21 TO -0001 -0002 & -0003 LHM & SIZE OF DRG	2-9-76	J. R. My

MARK APPROPRIATE REVISION LETTER

MARK APPROPRIATE SERIAL NUMBER

MARK ASSY, 913 KEYBOARD

REV	STATUS	REV	DATE	DESCRIPTION
4	MARK	97476-001	REV	
3	MARK	97476-002	REV	

PROCESSES:
1. SOLDER PER F-127 METHOD I

REV	STATUS	REV	DATE	DESCRIPTION
1	F	1	2	

UNLESS OTHERWISE SPECIFIED

REMOVE ALL BURRS AND SHARP EDGES

CONCENTRICITY MACHINED DIMENSIONS .010 P/R

DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING

IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY

INTERPRET DRAWINGS IN ACCORDANCE WITH MIL-STD-100

HOLE TOLERANCE

.013	.125	.251
THRU + .004	THRU - .001	THRU + .008
1.25 - .001	1.250 - .001	500 - .001

515070 3190

NEXT ASSY USED ON APPLICATION

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

TOLERANCES

ANGLES ± 1°

3 PLACE DECIMALS ± 0.10

2 PLACE DECIMALS ± 0.02

MATERIAL

DATE: 3/24/74

BY: Kelley

CH 32593 (G) 2-28-74

CH 4075-84 (E) 2-28-74

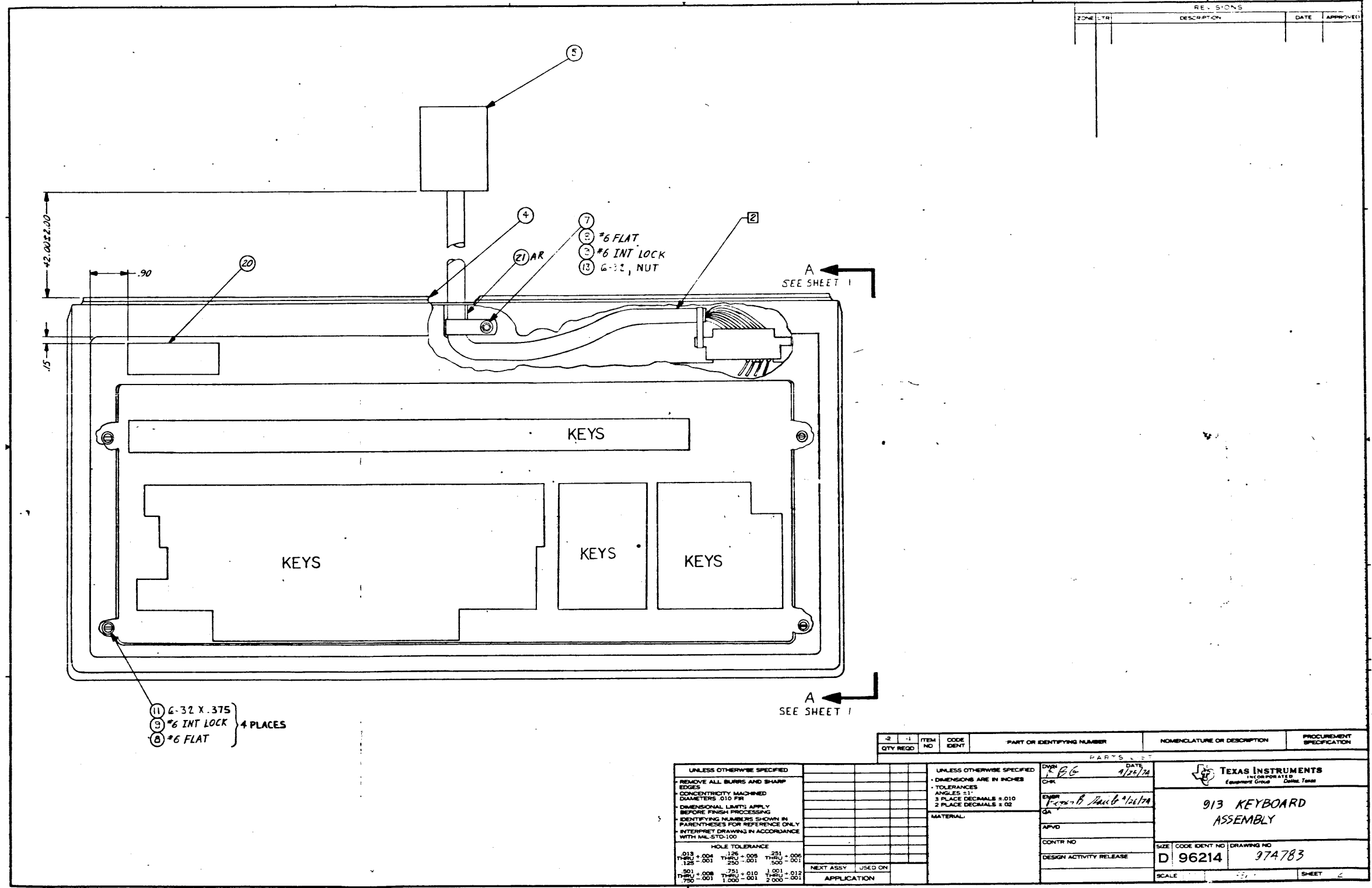
CH 4075-84 (F) 2-28-74

CH 4075-84 (G) 2-28-74

TEXAS INSTRUMENTS

913 KEYBOARD ASSEMBLY

SIZE	CODE IDENT NO	DRAWING NO
D	96214	974763



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

- (1) 6-32 X .375
 - (2) #6 INT LOCK
 - (3) #6 FLAT
- 4 PLACES

- (7) #6 FLAT
- (8) #6 INT LOCK
- (13) 6-32, NUT

A ←
SEE SHEET 1

A ←
SEE SHEET 1

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS: 0.10 FIR DIMENSIONAL LIMITS: APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWINGS IN ACCORDANCE WITH MIL-STD-100	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES ±1° 3 PLACE DECIMALS ±0.01 2 PLACE DECIMALS ±0.02	DWN: <i>L.B.G.</i> DATE: <i>9/25/74</i> ENGR: <i>Robert B. Hark</i> GA: <i> </i> APVD: <i> </i> CONTR NO: <i> </i> DESIGN ACTIVITY RELEASE: <i> </i>	TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas 913 KEYBOARD ASSEMBLY
HOLE TOLERANCE .015 thru .004 .125 thru .251 .251 thru .500 .125 thru .001 .250 thru .500 .500 thru .001 .501 thru .008 .751 thru 1.001 1.001 thru 1.750 .750 thru .001 1.000 thru 2.000 2.000 thru .001	MATERIAL: <i> </i> NEXT ASSY: <i> </i> USED ON: <i> </i> APPLICATION: <i> </i>	SIZE: D CODE IDENT NO: 96214 DRAWING NO: 974783 SCALE: <i> </i> SHEET: <i> </i>	

TEXAS INSTRUMENTS INCORPORATED		DATE 05/23/76		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 974783 -0001		REV P	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA	974768-0002	KEYBOARD, PROPERTY TERMINAL							
0002	00001.000	EA	975450-0001	CHASSIS, SLE-ASSY-KEYBOARD							
0003	00001.000	EA	974785-0001	COVER, KEYBOARD							
0004	00001.000	EA	975278-0001	HOUSING, KEYBOARD, 913							
0005	00001.000	EA	975068-0005	CABLE ASSY, 913 CRT TC KEYBOARD							
0006	00004.000	EA	230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD -101-1138						
0007	00001.000	EA	085913-0005	CLAMP 5/16 PLASTIC CABLE							
0008	00005.000	EA	418154-0058	WASHER, FLAT #6 CRES	QPL - NAS620-C6						
0009	00005.000	EA	411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - M535333-71						
0010	00005.000	EA	411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - M535333-70						
0011	00008.000	EA	972988-0028	SCREW 6-32 X .375 PAN HEAD CRES							
0012	00005.000	EA	972988-0014	SCREW 4-40 X .312 PAN HEAD CRES							
0013	00001.000	EA	416453-0022	NUT, PLAIN 6-32 UNC-28 HEX CRES, SMALL	QPL - NAS671C6						
0014	00005.000	EA	411027-0804	WASHER .125 X .312 X .032 FLAT CRES	QPL - M515795-804						
0015	00001.000	EA	172410-0001	NAMEPLATE-PART/SERIAL NO							
0018	AR	EA	235182-0002	LOCTITE SEALANT GRADE 242	LOC --242						
0019	AR	TU	415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW							
0020	00001.000	EA	943657-0005	PANEL TRIP, 913 VIDEO TERMINAL							
0021	00000.500	FT	087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085							

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
		J.R.H.	9-23-76			KEYBOARD ASSY, 913					
APP'D. JPC	DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	8190	PART NUMBER	LM 974783 -0001	REV	F

TEXAS INSTRUMENTS INCORPORATED		DATE 05/23/76		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 974783 -0002		REV F	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA	974768-0002	KEYBOARD, PROPERTY TERMINAL							
0002	00001.000	EA	975450-0002	CHASSIS, SLE-ASSY, KEYBOARD, 913							
0003	00001.000	EA	974785-0002	COVER, KEYBOARD, 913							
0004	00001.000	EA	975278-0001	HOUSING, KEYBOARD, 913							
0005	00001.000	EA	975068-0005	CABLE ASSY, 913 CRT TC KEYBOARD							
0006	00004.000	EA	230205-0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTG	PGD -101-1138						
0007	00001.000	EA	085913-0005	CLAMP 5/16 PLASTIC CABLE							
0008	00005.000	EA	418154-0058	WASHER, FLAT #6 CRES	QPL - NAS620-C6						
0009	00005.000	EA	411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - M535333-71						
0010	00005.000	EA	411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL - M535333-70						
0011	00008.000	EA	972988-0028	SCREW 6-32 X .375 PAN HEAD CRES							
0012	00005.000	EA	972988-0014	SCREW 4-40 X .312 PAN HEAD CRES							
0013	00001.000	EA	416453-0022	NUT, PLAIN 6-32 UNC-28 HEX CRES, SMALL	QPL - NAS671C6						
0014	00005.000	EA	411027-0804	WASHER .125 X .312 X .032 FLAT CRES	QPL - M515795-804						
0015	00001.000	EA	172410-0001	NAMEPLATE-PART/SERIAL NO							
0016	00001.000	EA	412257-0006	TERMINAL, LLG #6 12-2J AWG	QPL - M57706A-2						
0017	00000.800	FT	538347-2999	WIRE PICKUP B-24 AWG 19 STR WHITE	JUD - HH0112						
0018	AR	EA	235182-0002	LOCTITE SEALANT GRADE 242	LOC --242						
0019	AR	TU	415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW							
0020	00001.000	EA	943657-0005	PANEL TRIP, 913 VIDEO TERMINAL							

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
						913 STD KEYBOARD ASSY					
APP'D. JPC	DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 974783 -0002	REV	F

TEXAS INSTRUMENTS INCORPORATED		DATE 09/23/76		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 974783 -0002		REV F	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0021	00000.500	FT	087346-0002	GROMMET-CATERPILLAR METAL THK.052 TO.085							

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
						913 STD KEYBOARD ASSY					
APP'D. JPC	DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 974783 -0002	REV	F

TEXAS INSTRUMENTS INCORPORATED		DATE 05/23/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM974783 -0003		REV F		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
	0001.000	EA		943657 -C005	PANEL TRIP, 913 VIDEO TERMINAL							
0001	0001.000	EA		974768 -0002	KEYCARD, PROPERTY TERMINAL							
0002	0001.000	EA		975450 -C001	CHASSIS, SLE-ASSY-KEYBOARD							
0003	0001.000	EA		974785 -0001	COVER, KEYBOARD							
0004	0001.000	EA		975278 -C001	HOUSING, KEYBOARD, 913							
0005	0001.000	EA		975068 -0005	CABLE ASSY, 913 CRT TO KEYBOARD							
0006	0004.000	EA		230205 -0249	BUMPER BLK POLYETHYLENE 3/8 HI SCREW MTC PGD -101-1138							
0007	0001.000	EA		085913 -0005	CLAPP 5/16 PLASTIC CABLE							
0008	0005.000	EA		418154 -0058	WASHER, FLAT #6 CRES	OPL - NAS620-C6						
0009	0005.000	EA		411100 -0071	LOCKWASHER #6 INTERNAL TOOTH CRES	OPL - MS35333-71						
0010	0005.000	EA		411100 -0070	LOCKWASHER #4 INTERNAL TOOTH CRES	OPL - MS35333-70						
0011	0008.000	EA		972988 -0028	SCREW 6-32 X .375 PAN HEAD CRES							
0012	0005.000	EA		972988 -0014	SCREW 4-40 X .312 PAN HEAD CRES							
0013	0001.000	EA		416453 -0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	OPL - NAS671C6						
0014	0005.000	EA		411027 -0804	WASHER .125 X .312 X .032 FLAT CRES	OPL - MS15795-804						
0015	0001.000	EA		172410 -0001	NAMEPLATE-PART/SERIAL NJ							
0016	0001.000	EA		412257 -0006	TERMINAL, LUG #6 12-20 AWG	OPL - MS77068-2						
0017	0000.800	FT		538347 -2999	WIRE HOCKLP B-24 AWG 19 STR WHITE	JUD - HM0112						
0018	AR	EA		235182 -0002	LOCTITE SEALANT GRADE 242	LOC --242						
0019	AR	TU		415804 -0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 RAMADA CLUSTER KEYBOARD ASSY				
APPR. MFG.		DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM974783 -0003 F				

TEXAS INSTRUMENTS INCORPORATED		DATE 05/23/77		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM974783 -0003		REV F		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0020	0001.000	EA		943657 -C005	PANEL TRIP, 913 VIDEO TERMINAL							
0021	0000.500	FT		087346 -0002	GROMMET-CATERPILLAR METAL THK. .052 TO .085							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	913 RAMADA CLUSTER KEYBOARD ASSY				
APPR. MFG.		DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM974783 -0003 F				

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	PL ITEM NO.	REVISIONS			
									ZONE	LTR	DATE	APPROVED
1	CABLE BK	AR			P5-2	P2-1	KYBDDTBT 5	10				
2					-11	-8	GND					
3					-5	-3	KYBDDTBT 0					
4					-4	-4	KYBDDTBT 2					
5					-8	-5	REPEAT					
6					-7	-A	KYBDDTBT 6					
7	BL				-1	-B	KYBDDTBT 4					
8	WHT/BK				-6	-C	KYBDDTBT 1					
9	R/BK				-3	-D	KYBDDTBT 3					
10	G/BK				-5	-H	K8 SIN					
11	BL/BK				-13	-9	+5 V					
12	CABLE BK/WHT	AR			P5-15	P2-2	CHASSIS GND	10				

NOTES:

- LOOP STRAP (ITEM 4) THRU CENTER OF HOLE IN CONNECTOR
- CUT OFF R/WHT, G/WHT, BL/WHT, WIRES OF CABLE (ITEM 10) ON BOTH ENDS
- INSTALL ITEM 3 IN K AND L POSITIONS
- ~~PART NUMBER 539439-0003 MAY BE USED AS A SECOND SOURCE FOR ITEM 5. PART NO. 539439-0003 MAY BE USED AS A SECOND SOURCE FOR ITEM 6. NOTE THAT IF SECOND SOURCE FOR ITEM 5 IS USED, THEN SECOND SOURCE FOR ITEM 6 MUST ALSO BE USED. SECOND SOURCE FOR ITEM 6 WILL NOT FIT FIRST SOURCE OF ITEM 5 AND VICE VERSA.~~
- REMOVE SCREW FROM ITEM B. LAY ITEM 13 IN THIMBLE OF ITEM B AND SLIDE ITEM 5 ONTO ITEM 5 SO THAT ITEM 13 IS BETWEEN ITEM B AND ITEM 5. INSERT SCREW INTO ITEM B AND TURN THE SCREW SO THAT IT COMES THROUGH ITEM 13 AND PROTRUDES FROM ITEM 5 AS SHOWN. DISCARD CONNECTOR SECURING CLIPS AND SCREWS PROVIDED WITH ITEM 7

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		2435632(C)A... (11)W NOTE 1 ITEM 4 WAS 17-311	7/12/75	W. Johnson
B		CN39290B (C)S... (1)ADDED NOTE 5 (2) REVISED PICTORIAL OF ITEM B ON PS (3) ADDED ITEM 13 (4) ITEM B WAS 40676B-0004	4/16/75	W. Johnson
C		CN41165(C)S... (1)101-0005 LM ITEM 10 WAS 230250-005B (2)DELETED BEL LABEL BLOCK	4/16/75	W. Johnson
D		CN4074B (C)S... (1)101-0005 LM ITEM 7 WAS 539203-0003	7/13/76	W. Johnson
E		CN422147 (C)S... (2)11-10005 (3)DELETED NOTE 4 (2) ITEM 5 (3) ITEM 5 PN WAS 972077-0001 (3) ITEM 6 PN WAS 972075-0001	5-18-77	B.R.P.

PROCESSES:

- MARK PER F-100, METHOD III, CLASS 12, COLOR BLACK, TYPE 3
- SOLDER PER F-127, METHOD I

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 P/R	DIMENSIONS ARE IN INCHES	TOLERANCES ANGLES ±1° 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.008
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		

HOLE TOLERANCE	SIZE	THRU	THRU	THRU	THRU
.015	.001	.125	.251	.375	.500
.015	.001	.125	.251	.375	.500
.015	.001	.125	.251	.375	.500
.015	.001	.125	.251	.375	.500

DATE	BY	DESCRIPTION
12-11-74	S. D. ...	...
12/22/74	...	...
12/11/75	...	...

DESIGN ACTIVITY RELEASE	DATE	BY
...

TXAS INSTRUMENTS EQUIPMENT GROUP	CABLE ASSEMBLY, 913 CRT TO KEYBOARD
SIZE: CODE IDENT NO: DRAWING NO:	D 96214 97506B
SCALE: NONE	SHEET 1 OF 1



TEXAS INSTRUMENTS
INCORPORATED

DATE 05/12/77

LIST OF MATERIAL

PAGE 1 of

PART NUMBER
LM0975068-0005

REV
E

ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	0001.000	EA		0232118-0075	HOUSING CONN. PC 10 DUAL POS PHENOLIC	AMP -582963-2
0001A					P2	
0002	00012.000	EA		0231553-0010	CONTACT LEAF 42717-3	AMP -42717-3
0003	00002.000	EA		0235411-0050	SPRING RETAINING 42973-3	AMP -42973-3
0004	00001.000	EA		0418212-0040	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	QPL - MS3367-4-9
0005	00001.000	EA		0539409-0003	CONNECTOR, RACK AND PANEL, 15POS	
0005A					P5	
0006	00012.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST
0007	00001.000	EA		0539903-0005	HOOD, CONN 15 PIN WITH RETAINERS	AMP -204476-2
0008	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419
0009	00003.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-9B
0010	00005.000	FT		0972444-0002	CABLE, 15COND 22AWG UL LISTED	
0011	AR	RL		0231579-0000	CORD LACE .090X.0125-500Y	-#18 BLK.
0012	REF	EA		0973585-9901	UNIT TEST PROCEDURE	
0013	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F	

SUPERSEDED

DRAFTSMAN	DATE	CHK. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
		<i>R. A. ...</i>	5-12-77			CABLE ASSY. 913 CRT TO KEYBOARD
APPD. MFG	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						8190
						PART NUMBER
						LM0975068-0005
						REV
						E

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	PL ITEM NO.
1	CLEAR	AR			J3-E	P4-L	AUDIO # 1	7
2	BK				J3-2B	P4-9	AUDIO # 2	
3	CLEAR				J3-P	P4-1	KYBD DT	
4	BK				J3-T	P4-5	TERM STUS	
5	SHIELD				J3-S	P4-3	GRD RTN	7
6	JUMPER				J3-J	J3-R	VIDEO COMP	14
7	CTR COND				J3-J	P2-CTR PIN	VIDEO	5
8	SHIELD				J3-30	P3-COMM HSG	GRD	5
9	JUMPER				J3-Y	J3-C	KYBD DT SER	14
10	JUMPER				J3-W	J3-W	TERM STUS READY	
11	JUMPER	AR			J3-L	J3-B	V SYNC	
12	JUMPER	AR			J3-J	J3-R	H SYNC	
13	JUMPER	AR			J3-W	J3-R	TERM READY	14

NOTES: CONT.
 5 ITEM 101 IN -0020 LM CONSISTS OF BULK CABLE ASSEMBLY MATERIAL

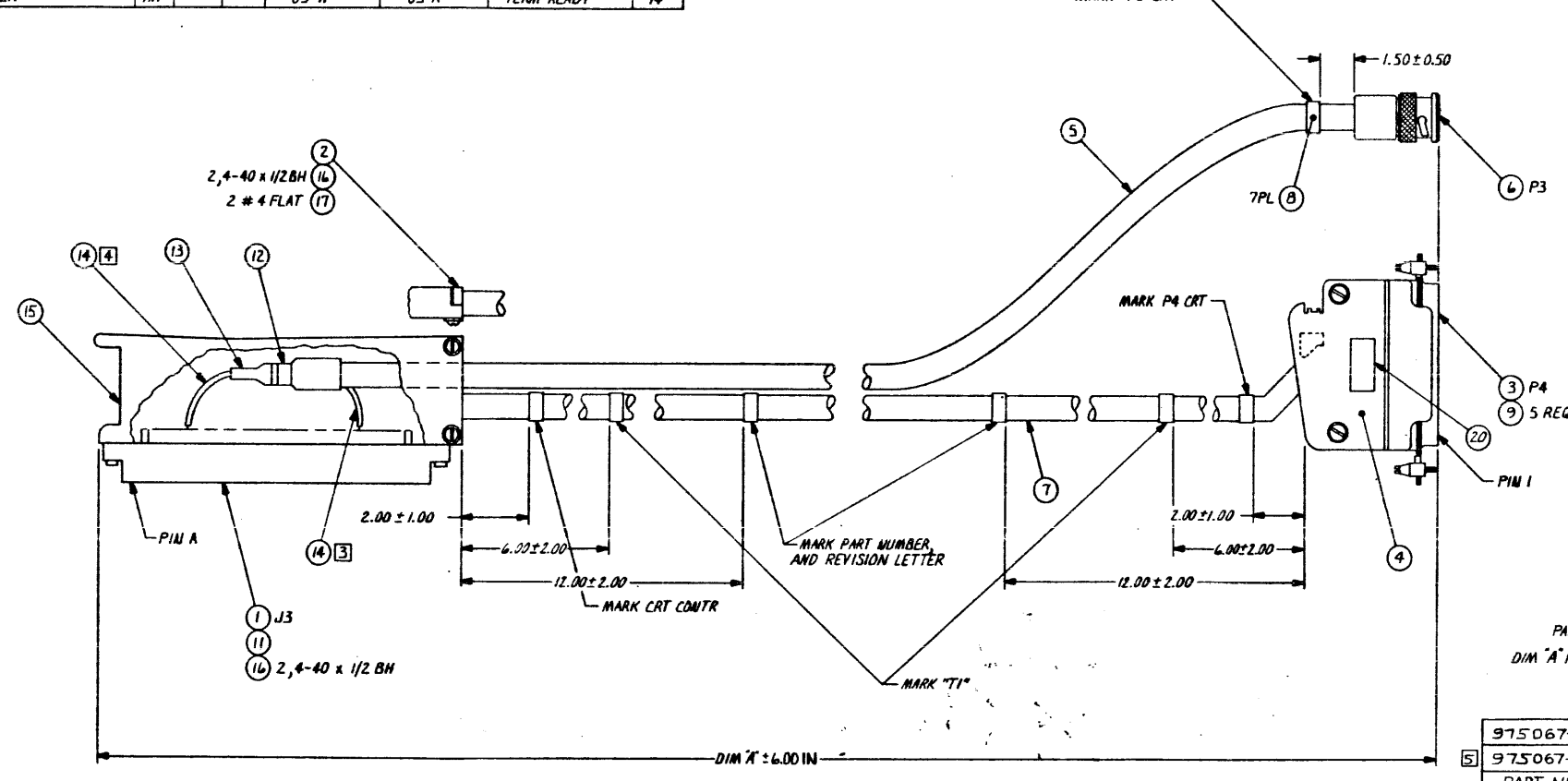
NOTES:
 7 PART NUMBER 800645-0001 MAY BE USED AS A SECOND SOURCE FOR ITEM 3. PART NUMBER 972075-0001 MAY BE USED AS A SECOND SOURCE FOR ITEM 9. NOTE THAT IF SECOND SOURCE FOR ITEM 3 IS USED THEN SECOND SOURCE FOR ITEM 9 MUST ALSO BE USED. SECOND SOURCE FOR ITEM 3 WILL NOT FIT FIRST SOURCE FOR ITEM 9 AND VICE VERSA

2 REMOVE SCREW FROM ITEM 10. LAY ITEM 18 IN CHANNEL OF ITEM 10. SLIDE ITEM 10 OVER ITEM 5 SO THAT ITEM 18 IS BETWEEN ITEMS 5 AND ITEM 10. INSERT SCREW INTO ITEM 10 AND TIGHTEN THE SCREW SO THAT IT COMES THROUGH ITEM 18 AND PROTRUDES FROM ITEM 5 AS SHOWN. DISCARD CONNECTOR SECURING SCREWS AND ELPS PROVIDED WITH ITEM 5.

3 PIGTAIL ITEM 14 TO OUTER SHIELD OF ITEM 5 AND COVER WITH ITEM 12

4 SPLICE ITEM 14 TO CENTER CONDUCTOR OF ITEM 5 AND COVER WITH ITEM 13

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		DELETED WIRE 10 & 12 IN WIRE LIST & ADDED WIRE 13	10/1/75	
B		ADDED WIRE 2, 3 & 4 TO WIRE LIST. ADDED DETAIL TO ITEM 15 (4) ITEM 13 PIN WA. -0034 04 LM. ADDED ITEM 13	4/16/75	
C		CN407482(C) P. 1. (1) ON -0020 LM ITEM 4 WAS 539703-0002	6/15/75	
D		CN407878(C) D. (1) ITEM 11 WAS QTY 1200 PN 41634-310 (2) ITEM 12 WAS 417177-0179 (3) ADDED ITEM 19 (4) W/L NO 13 J3-W, J3-R WAS P3-W, P3-R	5/17/76	
E		CN419241(D) P. 1. (1) DIM 12.00 ± 2.00 WAS 10.00 ± 2.00. ADDED DIM 4.00 ± 2.00 IN 2 PL. 2.00 ± 1.00 (PA SIDE) 11.00 ± 1.00 (PB SIDE) (2) ADDED MARK "T" (3) MARK P4... WAS 1 PL (4) ADDED ITEM 20 TO LAL & PD (5) LM ITEM 5 WAS QTY 4. ITEM 7 WAS 1. ITEM 11 WAS 417177-8. ITEM 12 WAS 417177-5. ITEM 13 WAS 417177-4 & ITEM 13 WAS 41634-300 (6) MARK CRT CONTR. MARK CRT CONTROLLER	9-30-76	
F		CN446232(C) R. (1) NOTE 1 PN'S 800645-1 & 972075-1 WERE 539409-1 & 534430-3 RESP (2) DELETED FLAG NOTE 2 (4) LM. PN OF ITEMS 3, 6 & 9 WERE 800645-1, 418790-2 & 972075-1 RESP (3) DELETED ITEMS 10 & 18	4-10-78	
G		CN443288(C) D. (1) CREATED - 5020 (2) ADDED LM ITEM 101 TO -0020 (3) ADDED FLAG NOTE 5 (4) ADDED PART NO. BLOCK	9-7-79	



PART NUMBER	DESCRIPTION
975067-5020	BULK CABLE ASSEMBLY MATERIAL FOR -0020
975067-0020	CABLE ASSY. 913 CRT TO CRT CONTROLLER

PROCESSES:
 1. MARK PER F-100, METHOD VII, CLASS 12, COLOR BLACK, TYPE 3
 2. SOLDER PER F-127, METHOD I

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED:
 - REMOVE ALL BURRS AND SHARP EDGES
 - CONCENTRICITY MACHINED DIAMETERS .010 PIR
 - DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
 - IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
 - INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100

HOLE TOLERANCE:
 .013 - .034 126 ± .008 .251 ± .001
 THRU .001 THRU .250 - .001 THRU .500 ± .001
 .125 - .250 ± .001

UNLESS OTHERWISE SPECIFIED:
 - DIMENSIONS ARE IN INCHES
 - TOLERANCES:
 ANGLES ± 1°
 3 PLACE DECIMALS ± .010
 2 PLACE DECIMALS ± .02

MATERIAL:
 DWN DATE 10-16-74
 CHK
 ENGR
 DA
 APVD
 CONTR NO

DESIGN ACTIVITY RELEASE
 SCALE

TEXAS INSTRUMENTS
 INCORPORATED
 Equipment Group Dallas, Texas

CABLE ASSEMBLY, 913 CRT TO CRT CONTROLLER

SIZE CODE IDENT NO DRAWING NO
 D 96214 975067

SHEET

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 08/03/79	PAGE 1 of	PART NUMBER LM0975067-0020	REV G
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER	
0001	00001.000	EA		0231447-0000	CONNECTOR, PRINTED CIRCUIT BOARD EDGE	035574- SEE DRAWING	
0001A					J3		
0002	00001.000	EA		0214081-0001	CLAMP		
0003	00001.000	EA		0539409-0001	CONNECTOR, RACK & PANEL, PLUG, 9POS		
0003A					P4		
0004	00001.000	EA		0539903-0008	HOOD, CONN, 9 PIN W/SCREW RETAINER KIT		
0006	00001.000	EA		0996828-0001	CONNECTOR, BMC, PLUG	000779-2-329083-1	
0006A					P3		
0015	00001.000	EA		0214080-0001	CONNECTOR-COVER		
0020	00001.000	EA		0962571-0005	PLATE, ID, EOP CABLE		
0101	00001.000	EA		0975067-5020	BULK CABLE ASSEMBLY MATERIAL FOR-0020		

DRAFTSMAN	DATE	CHKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
		<i>J. R. Hall</i>	8-6-79			CABLE ASSY, 913 CRT TO CRT CONTROLLER
APPD. MGR.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						8190
						PART NUMBER LM0975067-0020
						REV G

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 08/03/79	PAGE 1 of	PART NUMBER LM0975067-5020	REV G
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER	
0005	00020.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U		
0007	00020.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELDED INSUL		
0008	00007.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98	
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP	-205202-2 ST
0011	00002.000	FT		0972437-0005	INSULATION SLEEVING 1/4" HEAT SHRINKABLE	LFS	- HT-105C-UL-1/
0012	00000.100	FT		0972437-0002	INSULATION SLEEVING PVC .187" X .025 WALL	MKL	- HT-105C-UL-3/
0013	00000.200	FT		0972437-0001	SLEEVE, PVC .125 ID .025 WALL	SEE	- TI DRAWING
0014	00001.500	FT		0935170-3099	WIRE, UL 1429, 19 STRD, 22AWG, WHT/BLK	-	-
0016	00004.000	EA		0972988-0017	SCREW 4-40 X .500 PAN HEAD CPES	-	-
0017	00002.000	EA		0416622-0011	WASHER #4 FLAT	QPL	- 4960C4L
0019	00000.700	FT		0972436-0010	INSUL SLEEVING, TEFON #13.059ID .016 WALL	MKL	- HT-105C-13

DRAFTSMAN	DATE	CHKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
						BULK CABLE ASSEMBLY MATERIAL FOR-0020
APPD. MGR.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						PART NUMBER LM0975067-5020
						REV G

TEXAS INSTRUMENTS INCORPORATED		DATE 12/10/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0010		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00010.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U						
JJ02	00002.000	EA		0996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1					
JJ02A					P3 J3						
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	WPL-MS-3368-1-9B					
JJ04	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							CABLE ASSY, 10 FT, ADAPTER, 913 CRT COAX				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
							8190	LM 0975059-0010		E	

TEXAS INSTRUMENTS INCORPORATED		DATE 12/10/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0020		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00020.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U						
JJ02	00002.000	EA		0996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1					
JJ02A					P3 J3						
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	WPL-MS-3368-1-9B					
JJ04	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							CABLE ASSY, ADAPTER, 913 CRT COAX				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 0975059-0020		E	

TEXAS INSTRUMENTS INCORPORATED		DATE 12/10/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0030		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00030.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U						
JJ02	00002.000	EA		0996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1					
JJ02A					P3 J3						
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	WPL-MS-3368-1-9B					
JJ04	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							CABLE ASSY, 30 FT, ADAPTER, 913 CRT COAX				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 0975059-0030		E	

TEXAS INSTRUMENTS INCORPORATED		DATE 12/10/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0040		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00040.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U						
JJ02	00002.000	EA		0996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1					
JJ02A					P3 J3						
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	WPL-MS-3368-1-9B					
JJ04	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							CABLE ASSY, 40 FT, ADAPTER, 913 CRT COAX				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 0975059-0040		E	

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0050		REV E		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
JJ02	00002.000	EA		J996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1				
JJ02A					P3 J3					
JJ04	00001.000	EA		J962571-0005	PLATE, ID, EDP CABLE					
J.01	00001.000	EA		0975059-5050	BULK CABLE ASSEMBLY MATERIAL FOR-0050					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY, 50 FT, ADAPTER, 913 CRT COAX			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975059-0050		REV E

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0060		REV E		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
JJ01	00060.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U	000779-2-329083-1				
JJ02	00002.000	EA		J996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1				
JJ02A					P3 J3					
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98				
JJ04	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY, 60 FT, ADAPTER, 913 CRT COAX			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975059-0060		REV E

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0070		REV E		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
JJ01	00070.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U	000779-2-329083-1				
JJ02	00002.000	EA		J996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1				
JJ02A					P3 J3					
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98				
JJ04	00001.000	EA		J962571-0005	PLATE, ID, EDP CABLE					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY, 70 FT, ADAPTER, 913 CRT COAX			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975059-0070		REV E

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0080		REV E		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
JJ01	00080.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U	000779-2-329083-1				
JJ02	00002.000	EA		J996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1				
JJ02A					P3 J3					
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98				
JJ04	00001.000	EA		J962571-0005	PLATE, ID, EDP CABLE					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY, 80 FT, ADAPTER, 913 CRT COAX			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975059-0080		REV E

TEXAS INSTRUMENTS INCORPORATED		DATE 12/10/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0090		REV E		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
JJ01	00090.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U							
JJ02	00002.000	EA		0996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1						
JJ02A					P3 J3							
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	WPL-MS-3368-1-9B						
JJ04	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY, 90 FT, ADAPTER, 913 CRT COAX					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975059-0090					

TEXAS INSTRUMENTS INCORPORATED		DATE 12/10/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0100		REV E		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
JJ02	00002.000	EA		0996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1						
JJ02A					P3 J3							
JJ04	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE							
JJ01	00001.000	EA		0975059-5100	BULK CABLE ASSEMBLY MATERIAL FOR-0100							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY, ADAPTER, 913 CRT COAX					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975059-0100					

TEXAS INSTRUMENTS INCORPORATED		DATE 12/10/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0200		REV E		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
JJ01	00200.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U							
JJ02	00002.000	EA		0996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1						
JJ02A					P3 J3							
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	WPL-MS-3368-1-9B						
JJ04	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY, ADAPTER, 913 CRT COAX					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975059-0200					

TEXAS INSTRUMENTS INCORPORATED		DATE 12/10/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-0500		REV E		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
JJ02	00002.000	EA		0996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1						
JJ02A					P3 J3							
JJ04	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE							
JJ01	00001.000	EA		0975059-5500	BULK CABLE ASSEMBLY MATERIAL FOR-0500							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY, ADAPTER, 913 CRT COAX					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975059-0500					

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-1000		REV E	
DATE 12/10/79									
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ02	00002.000	EA		0996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1			
JJ02A					P3 J3				
JJ04	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE				
J101	00001.000	EA		0975059-5999	BULK CABLE ASSEMBLY MATERIAL FOR-1000				
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, ADAPTER, 913 CAT COAX	
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0975059-1000 E	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-2000		REV E	
DATE 12/10/79									
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ01	02000.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U				
JJ02	00002.000	EA		0996828-0001	CONNECTOR, BNC, PLUG	000779-2-329083-1			
JJ02A					P3 J3				
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	JPL-MS-3368-1-9B			
JJ04	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE				
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, ADAPTER, 913 CAT COAX	
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0975059-2000 E	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-5050		REV E	
DATE 12/10/79									
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ01	00050.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U	JPL-MS-3368-1-9B			
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC				
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR-0050	
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0975059-5050 E	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-5100		REV E	
DATE 12/10/79									
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ01	00100.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U	JPL-MS-3368-1-9B			
JJ03	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC				
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR-0100	
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0975059-5100 E	

TEXAS INSTRUMENTS INCORPORATED		DATE 12/10/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-5500		REV E		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DNWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
JJ01	JJ500.000	FT		J416328-0003	CABLE, COAXIAL, RG-59B/U							
JJ03	J0006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	UPL-MS-3368-1-9B						
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR-0500					
APPROV. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975059-5500					

TEXAS INSTRUMENTS INCORPORATED		DATE 12/10/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975059-5599		REV E		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DNWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
JJ01	J01000.000	FT		0416328-0003	CABLE, COAXIAL, RG-59B/U							
JJ03	J0006.000	EA		J418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	UPL-MS-3368-1-9B						
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR-1000					
APPROV. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975059-5599					

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	REV	DESCRIPTION	DATE	APPROVED
938120	7506	A	CN419271 (E) H. Spring	7/8/77	H. Spring
	7061	B	CN429004 (E) C. LANGLINNIS	1-5-78	C. Langlinnis
	8744	C	CN429901 (D) D. Dancy	3-30-78	D. Dancy
		D	CN442740 (C) K. Doerfler	3-13-79	K. Doerfler
		E	CN458051 (D) K. Doerfler	1-23-80	K. Doerfler
		F	CN450515 (C) K. Doerfler	1-23-80	K. Doerfler
		G	CN450523 (C) K. Doerfler	1-23-80	K. Doerfler

938152-0016	PRINTER, 810. (VCO), FUL, ISO, 120V, T/B
-0015	(BSC), FUL, ISO, 120V, T/B
-0014	(VCO), FUL, ISO, 120V, W/O P/B
-0013	(BSC), EXP, ISO, 120V
-0012	(BSC), ISO, 220V
-0011	(BSC), FUL, ISO, 220V
-0010	(FCO), ISO, 220V
-0009	(FCO), FUL, ISO, 220V
-0008	(VCO), ISO, 220V
-0007	(VCO), FUL, ISO, 220V
-0006	(BSC), ISO, 120V
-0005	(BSC), FUL, ISO, 120V
-0004	(FCO), ISO, 120V
-0003	(FCO), FUL, ISO, 120V
-0002	(VCO), ISO, 120V
938152-0001	PRINTER, 810 (VCO), FUL, ISO, 120V
TI PART NO	DESCRIPTION

REV	SHEET	REV STATUS OF SHEETS	REV	G	F	SHEET	1	2
UNLESS OTHERWISE SPECIFIED • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02 • PARENTHEICAL INFO FOR REF ONLY			DWN RASMUSSEN DATE 4/12/77		TEXAS INSTRUMENTS INCORPORATED Dallas, Texas			
			ENGR K. Doerfler DATE 4-18-77		810 PRINTER, DOMESTIC			
			APPRO K. Doerfler DATE 4-14-77					
			QA C. White DATE 4-15-77					
			CONTR K. Doerfler DATE 4-18-77		SIZE FSCM NO DRAWING NO A 96214 938152			
			MFG K. Doerfler DATE 4-15-77		SCALE NONE SHEET 1 OF 2			

NOTES:

- Unless specified otherwise all 810 printers will include the following standard sub-options (Ref Dwg 2360026 sub-option index, 810 Printer).
 - BAUD Rates = 100, 150, 300, 1200, 4800, 9600.
 - "DTR" HIGH = on line and ready (not busy).
 - "REVERSE CHANNEL" HIGH = ready (not busy).
 - Receipt of "DELETE" character clears the buffers.
 - Printer will receive and operate on DC-1/DC-3.
 - PRINTER LINE VOLTAGE = 120V with domestic PWR cord.
- 810 printer nonstandard sub-options (Ref Dwg 2360026 sub-option index, 810 printer).
 - ISO = signal ground isolated from safety ground PN 2360026-0011.
 - 220V = printer line voltage PN 2360026-0014.
- The following table defines the 810 printer mnemonics:

PRINTER MNEMONICS	DESCRIPTIONS
BSC	Basic
FLC	Form Length Control.
VFC	Vertical Format Control.
FCO	Forms Length Control, Compressed Print.
VCO	Vertical Format Control, Compressed Print.
CHARACTER SET MNEMONICS	
FUL	U.S. Full ASCII
EXP	Expanded Print (Domestic U.S.)
- New printer kits created must have CSD label for handling procedures. ECN Dwg 2262123 using the same label format.

TEXAS INSTRUMENTS INCORPORATED Dallas, Texas	DWN K. Doerfler DATE 1/23/80	SIZE A	FSCM NO 96214	DRAWING NO 938152	REV F
	ISSUE DATE 1-23-80	SCALE		SHEET 2	

TEXAS INSTRUMENTS INCORPORATED		DATE 01/02/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0001		REV G		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	0001.000	EA		0994293-0002	810 PRINTER-VFC,COMPR PRNT							
0001A					PAPD 810 PTR IS AS FOLLOWS:							
0001B					QTY DESCRIPTION P/N							
0001C					1 ISO OPTION 2360026-0011							
0001D					REF INSTL 2262124-9901							
0001E					INSTRUCTIONS LABEL,CSD							
0002	0001.000	EA		0994395-0119	CHAR SET,US FULL ASCII W/VFC,-2PR							
0002A					INSTALLED IN ITEM 1							
0003	0001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED							
0004	0001.000	EA		2262123-0001	LBL,CSD 810 PTR KITS,VCG,FUL,120V							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506				
								PART NUMBER LM 0938152-0001				
								REV G				

TEXAS INSTRUMENTS INCORPORATED		DATE 01/02/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0002		REV G		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	0001.000	EA		0994293-0002	810 PRINTER-VFC,COMPR PRNT							
0001A					PAPD 810 PTR IS AS FOLLOWS:							
0001B					QTY DESCRIPTION P/N							
0001C					1 ISO OPTION 2360026-0011							
0001D					REF INSTL 2262124-9901							
0001E					INSTRUCTIONS LABEL,CSD							
0002	0001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED							
0003	0001.000	EA		2262123-0002	LBL,CSD 810 PTR KITS,VCG,120V							
0004	REF	EA		0937488-9901	MODIFICATION PROC,810 VOLTAGE CONV.							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PRINTER,810 (VCO),ISO,120V				
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0938152-0002				
								REV G				

TEXAS INSTRUMENTS INCORPORATED		DATE 01/02/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0003		REV G		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	0001.000	EA		0994293-0001	810 PRINTER-FL,COMPRESSED PRNT							
0001A					PAPD 810 PTR IS AS FOLLOWS:							
0001B					QTY DESCRIPTION P/N							
0001C					1 ISO OPTION 2360026-0011							
0001D					REF INSTL 2262124-9901							
0001E					INSTRUCTIONS LABEL,CSD							
0002	0001.000	EA		0994395-0019	CHAR SET,US FULL ASCII W/O VFC-2P							
0002A					INSTALLED IN ITEM 1							
0003	0001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED							
0004	0001.000	EA		2262123-0003	LBL,CSD 810 PTR KITS,FCG,FUL,120V							
0005	REF	EA		0937488-9901	MODIFICATION PROC,810 VCLTAGE CONV.							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PRINTER,810 (FCO),FUL,ISO,120V				
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0938152-0003				
								REV G				

TEXAS INSTRUMENTS INCORPORATED		DATE 01/02/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0004		REV G		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	0001.000	EA		0994293-0001	810 PRINTER-FL,COMPRESSED PRNT							
0001A					PAPD 810 PTR IS AS FOLLOWS:							
0001B					QTY DESCRIPTION P/N							
0001C					1 ISO OPTION 2360026-0011							
0001D					REF INSTL 2262124-9901							
0001E					INSTRUCTIONS LABEL,CSD							
0002	0001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED							
0003	0001.000	EA		2262123-0004	LBL,CSD 810 PTR KITS,FCO,120V							
0004	REF	EA		0937488-9901	MODIFICATION PROC,810 VOLTAGE CONV.							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PRINTER,810 (FCO),ISO,120V				
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0938152-0004				
								REV G				

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0005		REV G	
DATE 01/02/80									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0994292-0001	810 PRINTER-BASIC				
0001A					PAPC 810 PTR IS AS FOLLOWS:				
0001B					QTY DESCRIPTION P/N				
0001C					1 ISO OPTION 2360026-0011				
0001D					REF INSTL 2262124-9901				
0001E					INSTRUCTIONS LABEL,CSD				
0002	0001.000	EA		0994395-0019	CHAR SET,US FULL ASCII W/O VFC-2P				
0002A					INSTALLED IN ITEM 1				
0003	0001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED				
0004	0001.000	EA		2262123-0005	LBL,CSD 810 PTR KITS,BSC,FUL,120V				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
							PRINTER,810 (BSC),FUL,ISO,120V		
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM 0938152-0005	G

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0006		REV G	
DATE 01/02/80									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0994292-0001	810 PRINTER-BASIC				
0001A					PAPC 810 PTR IS AS FOLLOWS:				
0001B					QTY DESCRIPTION P/N				
0001C					1 ISO OPTION 2360026-0011				
0001D					REF INSTL 2262124-9901				
0001E					INSTRUCTIONS LABEL,CSD				
0002	0001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED				
0003	0001.000	EA		2262123-0006	LBL,CSD 810 PTR KITS,BSC,120V				
0004	REF	EA		0937488-9901	MODIFICATION PROC,810 VOLTAGE CONV.				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
							PRINTER,810 (BSC),ISO,120V		
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM 0938152-0006	G

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0007		REV G	
DATE 01/02/80									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0994293-0002	810 PRINTER-VFC,COMPR PRNT				
0001A					PAPC 810 PTR IS AS FOLLOWS:				
0001B					QTY DESCRIPTION P/N				
0001C					1 ISO OPTION 2360026-0011				
0001D					1 220 OPTION 2360026-0014				
0001E					REF INSTL 2262124-9901				
0001F					INSTRUCTIONS LABEL,CSD				
0002	0001.000	EA		0994395-0119	CHAR SET,US FULL ASCII W/VFC,-2PR				
0002A					INSTALLED IN ITEM 1				
0003	0001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED				
0004	0001.000	EA		0996290-0001	CORDSET,POWR-WEST EURO-RT ANGLE PLUG				
0005	0001.000	EA		2262123-0007	LBL,CSD 810 PTR KITS,VCO,FUL,220V				
0006	REF	EA		0537488-9901	MODIFICATION PROC,810 VOLTAGE CONV.				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
							PRINTER,810 (VCO),FUL,ISO,220V		
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM 0938152-0007	G

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0008		REV G	
DATE 01/02/80									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0994293-0002	810 PRINTER-VFC,COMPR PRNT				
0001A					PAPC 810 PTR IS AS FOLLOWS:				
0001B					QTY DESCRIPTION P/N				
0001C					1 ISO OPTION 2360026-0011				
0001D					1 220 OPTION 2360026-0014				
0001E					REF INSTL 2262124-9901				
0001F					INSTRUCTIONS LABEL,CSD				
0002	0001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED				
0003	0001.000	EA		0996290-0001	CORDSET,POWR-WEST EURO-RT ANGLE PLUG				
0004	0001.000	EA		2262123-0008	LBL,CSD 810 PTR KITS,VCO,220V				
0005	REF	EA		0537488-9901	MODIFICATION PROC,810 VOLTAGE CONV.				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
							PRINTER,810 (VCO),ISO,220V		
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM 0938152-0008	G

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0009		REV G		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0994293-0001	810 PRINTER-FL,COMPRESSED PRNT					
0001A					PAPC 810 PTR IS AS FOLLOWS:					
0001B					QTY DESCRIPTION P/N					
0001C					1 ISO OPTION 2360026-0011					
0001D					1 220 OPTION 2360026-0014					
0001E					REF INSTL 2262124-9901					
0001F					INSTRUCTIONS LABEL,CSD					
0002	00001.000	EA		0994395-0019	CHAR SET,US FULL ASCII W/O VFC-2P					
0002A					INSTALLED IN ITEM 1					
0003	00001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED					
0004	00001.000	EA		0996290-0001	CORDSET,POWR-WEST EURO-RT ANGLE PLUG					
0005	00001.000	EA		2262123-0009	LBL,CSD 810 PTR KITS,FCC,FUL,220V					
0006	REF	EA		0937488-9901	MODIFICATION PROC,810 VCLTAGE CONV.					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PRINTER,810 (FCC),FUL,ISO,220V		
APPROVING		DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0938152-0009		REV G

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0010		REV G		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0994293-0001	810 PRINTER-FL,COMPRESSED PRNT					
0001A					PAPC 810 PTR IS AS FOLLOWS:					
0001B					QTY DESCRIPTION P/N					
0001C					1 ISO OPTION 2360026-0011					
0001D					1 220 OPTION 2360026-0014					
0001E					REF INSTL 2262124-9901					
0001F					INSTRUCTIONS LABEL,CSD					
0002	00001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED					
0003	00001.000	EA		0996290-0001	CORDSET,POWR-WEST EURO-RT ANGLE PLUG					
0004	00001.000	EA		2262123-0010	LBL,CSC 810 PTR KITS,FCC,220V					
0005	REF	EA		0937488-9901	MODIFICATION PROC,810 VCLTAGE CONV.					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PRINTER,810 (FCC),ISO,220V		
APPROVING		DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0938152-0010		REV G

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0011		REV G		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0994292-0001	810 PRINTER-BASIC					
0001A					PAPC 810 PTR IS AS FOLLOWS:					
0001B					QTY DESCRIPTION P/N					
0001C					1 ISO OPTION 2360026-0011					
0001D					1 220 OPTION 2360026-0014					
0001E					REF INSTL 2262124-9901					
0001F					INSTRUCTIONS LABEL,CSD					
0002	00001.000	EA		0994395-0019	CHAR SET,US FULL ASCII W/O VFC-2P					
0002A					INSTALLED IN ITEM 1					
0003	00001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED					
0004	00001.000	EA		0996290-0001	CORDSET,POWR-WEST EURO-RT ANGLE PLUG					
0005	00001.000	EA		2262123-0011	LBL,CSD 810 PTR KITS,BSC,FUL,220V					
0006	REF	EA		0937488-9901	MODIFICATION PROC,810 VCLTAGE CONV.					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PRINTER,810 (BSC),FUL,ISO,220V		
APPROVING		DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0938152-0011		REV G

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0012		REV G		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0994292-0001	810 PRINTER-BASIC					
0001A					PAPC 810 PTR IS AS FOLLOWS:					
0001B					QTY DESCRIPTION P/N					
0001C					1 ISO OPTION 2360026-0011					
0001D					1 220 OPTION 2360026-0014					
0001E					REF INSTL 2262124-9901					
0001F					INSTRUCTIONS LABEL,CSD					
0002	00001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED					
0003	00001.000	EA		0996290-0001	CORDSET,POWR-WEST EURO-RT ANGLE PLUG					
0004	00001.000	EA		2262123-0012	LBL,CSD 810 PTR KITS,BSC,220V					
0005	REF	EA		0937488-9901	MODIFICATION PROC,810 VCLTAGE CONV.					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PRINTER,810 (BSC),ISO,220V		
APPROVING		DATE	APPROVING PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0938152-0012		REV G

TEXAS INSTRUMENTS INCORPORATED		DATE 01/02/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0013		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0994292-0001	810 PRINTER-BASIC						
0001A					PAPC 810 PTR IS AS FOLLOWS:						
0001B					QTY DESCRIPTION P/N						
0001C					1 ISO OPTION 2360026-0011						
0001D					REF INSTL 2262124-9901						
0001E					INSTRUCTIONS LABEL,CSD						
0002	0001.000	EA		0994442-0001	PAPER BASKET-TERMINAL MOUNTED						
0003	0001.000	EA		0994395-0008	CHAR SET,EXPANDED LTD ASCII W/O VFC						
0004	0001.000	EA		2262123-0013	LBL,CSD 810 PTR KITS,BSC,EXP,120V						
0005	REF	EA		0937488-9901	MODIFICATION PROC,810 VOLTAGE CONV.						
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PRINTER,810 (BSC),EXP,ISO,120V			
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0938152-0013		REV G	

TEXAS INSTRUMENTS INCORPORATED		DATE 01/02/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0014		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0994293-0002	810 PRINTER-VFC,COMPR PRNT						
0001A					PAPC 810 PTR IS AS FOLLOWS:						
0001B					QTY DESCRIPTION P/N						
0001C					1 ISO OPTION 2360026-0011						
0001D					REF INSTL 2262124-9901						
0001E					INSTRUCTIONS LABEL,CSD						
0002	0001.000	EA		0994395-0119	CHAR SET,US FULL ASCII W/VFC,-2PR						
0002A					INSTALLED IN ITEM 1						
0003	0001.000	EA		2262123-0026	LBL,CSD 810,VCO,FUL,120V W/O P/B						
0004	REF	EA		0937488-9901	MODIFICATION PROC,810 VOLTAGE CONV.						
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PRINTER,810 (VCO),FUL,ISO,120V W/O P/B			
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0938152-0014		REV G	

TEXAS INSTRUMENTS INCORPORATED		DATE 01/02/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0015		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0994292-0001	810 PRINTER-BASIC						
0001A					PAPC 810 PTR IS AS FOLLOWS:						
0001B					QTY DESCRIPTION P/N						
0001C					1 ISO OPTION 2360026-0011						
0001D					REF INSTL 2262124-9901						
0001E					INSTRUCTIONS LABEL,CSD						
0002	0001.000	EA		0994395-0019	CHAR SET,US FULL ASCII W/O VFC-2P						
0002A					INSTALLED IN ITEM 1.						
0003	0001.000	EA		2262123-0027	LBL,CSD 810 PTR KITS,BSC,FUL,120V T/B						
0004	REF	EA		0937488-9901	MODIFICATION PROC,810 VOLTAGE CONV.						
0007	0001.000	EA		0994509-0001	TEAR BAR OPTION-100 COLUMN						
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PRINTER,810 (BSC),FUL,ISO,120V T/B			
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0938152-0015		REV G	

TEXAS INSTRUMENTS INCORPORATED		DATE 01/02/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938152-0016		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0994293-0002	810 PRINTER-VFC,COMPR PRNT						
0001A					PAPC 810 PTR IS AS FOLLOWS:						
0001B					QTY DESCRIPTION P/N						
0001C					1 ISO OPTION 2360026-0011						
0001D					REF INSTL 2262124-9901						
0001E					INSTRUCTIONS LABEL,CSD						
0002	0001.000	EA		0994395-0119	CHAR SET,US FULL ASCII W/VFC,-2PR						
0002A					INSTALLED IN ITEM 1.						
0003	0001.000	EA		2262123-0028	LBL,CSD 810 PTR KITS,VCO,FUL,120V,T/B						
0004	REF	EA		0937488-9901	MODIFICATION PROC,810 VOLTAGE CONV.						
0007	0001.000	EA		0994509-0001	TEAR BAR OPTION-100 COLUMN						
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PRINTER,810 (VCO),FUL,ISO,120V T/B			
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0938152-0016		REV G	

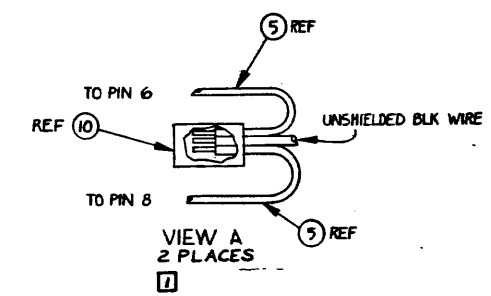
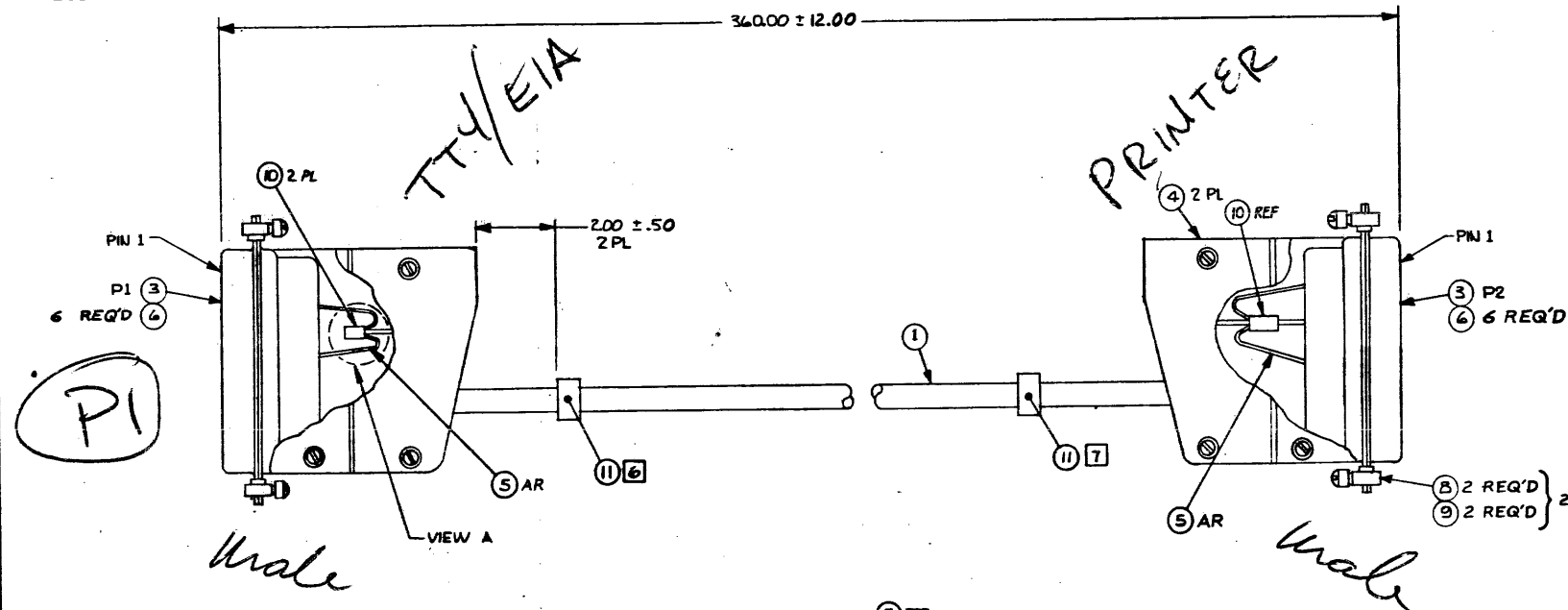
- NOTES: UNLESS OTHERWISE SPECIFIED:
- 1 CRIMP ITEM 6 TO ITEM 5, 2 REQ'D, AND SECURE BOTH WIRES TO BLK UNSHIELDED WIRE OF ITEM 1 WITH A SOLDER SLEEVE ITEM 10. THE PINS ARE THEN INSERTED IN LOCATIONS ⑩ & ⑪ SEE VIEW A
 - 2 REMOVE SCREW FROM ITEM 8. LAY ITEM 9 IN THIMBLE OF ITEM 8 AND SLIDE ITEM 8 ONTO ITEM 3 SO THAT ITEM 9 IS BETWEEN ITEM 3 AND ITEM 8. INSERT SCREW INTO ITEM 3 AND TURN THE SCREW SO THAT IT COMES THROUGH ITEM 8 AND PROTRUDES FROM ITEM 3 AS SHOWN. DISCARD CONNECTOR SECURING CLIPS AND SCREWS PROVIDED WITH ITEM 4.
 - 3 CRIMP ITEM 6 TO PROTECTIVE GRN (SHIELD OF ITEM 1). THEN INSERT IN LOCATION 1
 - 4 CABLE WITH REV # WILL NOT WORK WITH 810 PRINTER CONFIGURED FOR STANDARD NON-DNB (E4 TO E5 ON PROCESSOR) CONFIGURATION. USE REVISION A CABLE FOR ALL APPLICATIONS

- NOTES: (CONT)
- 5 ITEM 10 11 -0001 LM CONSISTS OF BULK CABLE ASSY MAT'L
 - 6 MARK PER 2265070 FOURTH LINE TEXT "TTY/EIA"
 - 7 MARK PER 2265070 FOURTH LINE TEXT "PTR"

ITEM NO	DESCRIPTION	TOTAL LENGTH	START STATION	END STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR END STATION	REMARKS	QTY
1	BLK	AR			P1-6	P2-6	DTRE	1
2	WHT	AR			P1-20	P2-11	DSRE	1
3	BLK	AR			P1-7	P2-7	SG	1
4	WHT	AR			P1-3	P2-3	XMTDE	1
5	SHIELD	AR			P1-1	P2-1	PROTECTIVE GND	1
6	NO 22 WHT	AR			P2-6	P2-3	DCDE	5
7	NO 22 WHT	AR			P1-6	F1-8	DCDE	5

REV	DESCRIPTION	DATE	APPROVED
A	CHANGED FROM 11-11-77 TO 11-10-78. BLK MARKING DELETED. TTY/EIA & PTR MARKING (3) DELETED. TEXAS INSTRUMENTS INC MARKING (1) IN WIRE LIST WIRE 2 FINISH STATION WAS P2-20	1-10-78	J. R. ...
B	CN441309 (C) R. G. (1) -0001 LM PN OF ITEM 7 WAS 41177-0006 (2) ADDED NOTE 4	12-6-78	H. ...
C	CHANGED (2) 2 PL (1) CREATED -0001 LM (2) ADDED ITEM 10 (3) 01-0001 LM (3) ADDED NOTE 3 (4) ADDED PJ BLOCK	9-6-79	J. R. ...
D	CN452705 (C) R. G. (1) REVISED PER EXTENSIVE ENGR CHANGES	3-6-80	E. ...

P1 | P2
 8-6-6-8
 20-11
 7-7
 3-3
 1-1 GND



P2

938114-5001	BULK CABLE ASSY MAT'L FOR -0001
938114-0001	990 CABLE ASSY, TTY/EIA TO MC-810
PART NO	DESCRIPTION

SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED:
 • DIMENSIONS ARE IN INCHES
 • TOLERANCES: ANGLES ± 1°
 3 PLACE DECIMALS ± 0.03
 2 PLACE DECIMALS ± 0.02
 • INTERPRET DRAWING PER MIL-D-1000
 • REMOVE ALL BURRS AND SHARP EDGES
 • CONCENTRICITY MACHINED DIMETERS 0.01 FIM
 • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
 • PARENTHESES INFO FOR REF ONLY

HOLE TOLERANCE:
 0.13 THRU * .004 1.26 THRU * .005 .751 THRU * .008
 1.25 * .001 250 * .001 300 * .001

938120 7506
 NEXT ASSY USED ON APPLICATION

DATE: 3-21-77
 DATE: 4-18-77
 DATE: 4-18-77
 DATE: 6-3-77
 DATE: 4/2/77

TEXAS INSTRUMENTS INCORPORATED
 Dallas, Texas
 990 CABLE ASSY, TTY/EIA TO MC-810
 D96214 938114
 SCALE: NONE SHEET

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938114-0001		REV D		
PRINT ITEM NUMBER	QUANTITY ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0003	00002.000	EA		0539409-0805	CONNECTOR, PLUG 25 PINS	AMP -205208-1						
0003A					P1,P2							
0004	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2						
0008	00004.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419						
0009	00004.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 05610 +275 F							
0012	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1							
0101	00001.000	EA		0938114-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001							
DRAFTSMAN		DATE	CKD	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
				<i>J. K. Kelly</i>	2-14-80			990 CABLE ASSY, TTY/EIA TO 810				
APPROV. MFG		DATE	APPROV.	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV		
								7506	LM 0938114-0001	D		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0938114-5001		REV D		
PRINT ITEM NUMBER	QUANTITY ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00030.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELDED INSUL							
0005	00001.000	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	090484-XV81934U9P						
0006	00012.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .060 INSUL DIA	AMP -205202-2 SF						
0010	00002.000	EA		0530171-0004	SLEEVE, .625LG .1100IA, LOW TEMP, CLEAR	008795-D-142-50						
0011	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	085480-SLPF-19319-4						
DRAFTSMAN		DATE	CKD	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
								BULK CABLE ASSEMBLY MATERIAL FOR -0001				
APPROV. MFG		DATE	APPROV.	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV		
									LM 0938114-5001	D		

female EIA P1 *male* P2

NOTES: UNLESS OTHERWISE SPECIFIED:

- CONNECT WIRE NO. 9 OF ITEM 1 TO P1-4 AND P1-5 AS SHOWN, LASTING PROCESS 1
- CONNECT ALL SHD WIRE NO. 1 TO P1-7 AND P2-7 AS SHOWN, LASTING PROCESS 2. P1 END IS SHOWN. P2 END IS SAME EXCEPT CONNECTOR PIN IS ITEM 4
- INSTALL VENDOR SUPPLIED CLIPS AND SCREENS ON P1 (ITEM 6) AND P2 (ITEM 3). CLIPS AND SCREENS ARE PARTS OF ITEM 4 (CONV. HOUS.)
- ITEM 10 IN -0001 L.M. CONSISTS OF BULK CABLE ASSEMBLY MATERIAL.

REV	DESCRIPTION	DATE	APPROVED
A	CN448202(C) <i>Rev 4</i> (1) ROTATED PICTORIAL OF P1 45° (2) DELETED PROCESS 3 & MARKING INSTRUCTIONS ON P1 & P2 (3) WIRE 3 FIN STA WAS P2-11 (4) WIRE 7 FIN STA WAS P2-20	1-16-79	E. Wing
B	CN448197(C) <i>Rev 4</i> (1) CREATED -5001 L.M. (2) ADDED ITEM 101 TO -0001 L.M. (3) ADDED NOTE 4 (4) ADDED PIN BLOCK	1-2-80	J.R. [Signature]

ITEM NO.	DESCRIPTION	QTY	UNIT	REVISION	COMMENTS	STATUS
1	NO 22, PVD			P1-20	P2-6	DTP → DTP
2	BLK			P1-7	P2-7	GND
3	WHT			P1-7	P2-20	SCRD → SCRD
4	BLK			P1-7	P2-7	GND
5	GRN			P1-2	P2-3	INTD → RCVD
6	BLK			P1-7	P2-7	GND
7	BLU			P1-6	P2-11	DTP → DTP
8	BLK			P1-7	P2-7	GND
9	YEL			P1-4	P2-9	P15 → DTD
10	BLK			P1-7	P2-7	GND
11	NO 22, WHT			P1-4	P1-5	P15 → CTS
12	NO 22, GRN			UNUSED	UNUSED	
13	NO 22, BLK			UNUSED	UNUSED	

PART NO	DESCRIPTION
2261935-5001	BULK CABLE ASSY MATL FOR -0001
2261935-0001	CABLE ASSY, 990 EIA TO MC-810 PRINTER

ITEM NO.	QTY	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					

IDENT	F.SPEC	NO	ADDITIONAL	NOTES
2	100-07	712	SEE BLK. TYPE & USE ITEMS 7, 10	1, 2
1	341-03	00		

UNLESS OTHERWISE SPECIFIED:

- DIMENSIONS ARE IN INCHES
- TOLERANCES: ANGLES ± 1°
- 3 PLACE DECIMALS ± 0.10
- 2 PLACE DECIMALS ± 0.02
- INTERPRET DRAWING PER MIL-D-1000
- REMOVE ALL BURRS AND SHARP EDGES
- CONCENTRICITY MACHINED DIAMETERS 0.10 P.M.
- DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
- PARENTHEICAL INFO FOR REF ONLY

HOLE TOLERANCE:

013 - .004	126 - .008	251 - .008
THRU - .001	THRU - .001	THRU - .001
128 - .001	250 - .001	500 - .001
.001 - .008	.751 - .010	1.001 - .012
THRU - .001	THRU - .001	THRU - .001
750 - .001	1.000 - .001	2.000 - .001

2261938 7046

DATE: 2/19/78

SCALE: 2:1

TEXAS INSTRUMENTS INCORPORATED Dallas, Texas

CABLE ASSY, 990 EIA TO MC-810 PRINTER

D 96214 2261935

1 SHEET

TEXAS INSTRUMENTS INCORPORATED		DATE 12/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261935-0001		REV 8	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ03	00001.000	EA		0539400-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
JJ03A					P2						
JJ04	00002.000	EA		0539903-0001	HOOD, CONN 25 PIN WITH RETAINERS	AMP - 206478-3					
JJ08	00001.300	EA		0539400-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
DJ08A					P1						
D.01	00001.000	EA		2261935-5001	BULK CABLE ASSEMBLY MATERIAL FOR-0001						

DRAFTSMAN	DATE	CRO. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY. 990 EIA TO MC-810 PRINTER				
		<i>J.R. ...</i>	12-6-79								
APPD. ENG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7946	PART NUMBER	LM 2261935-0001	REV	8

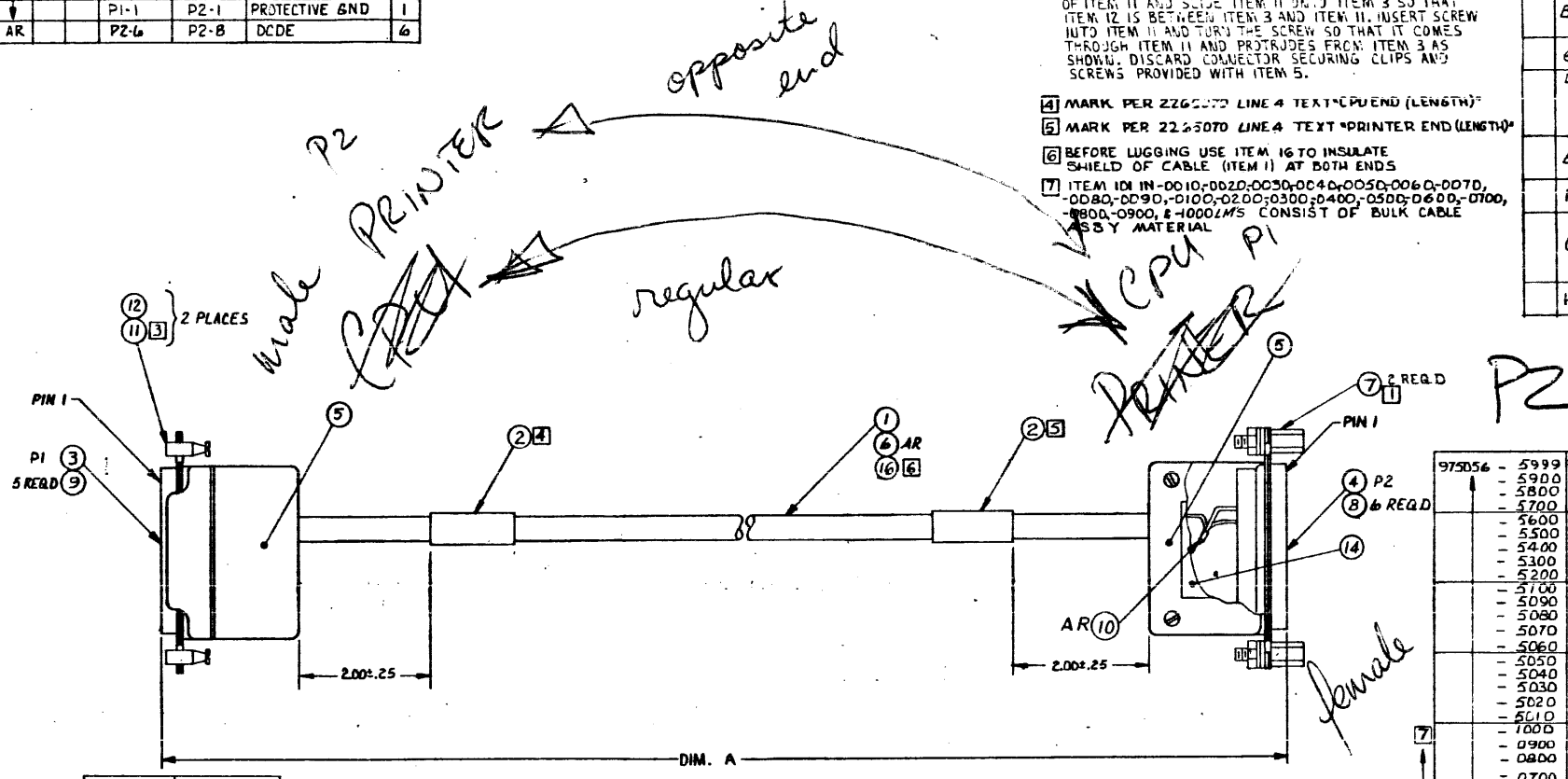
TEXAS INSTRUMENTS INCORPORATED		DATE 12/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261935-5001		REV 8	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00030.000	FT		0800563-0106	CABLE, 22 AWG PVC 6 PAIRS UNSHIELD						
JJ02	00006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	UPL-MS-3368-1-98					
JJ05	00000.500	FT		220012-3999	WIRE, WHT. UL 1429, 1934, 22AWG	090484-XVB1934USP					
JJ06	00006.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
JJ07	00001.000	EA		0530171-0004	SLEEVE, .625LG .110DIA, LOW TEMP, CLEAR	008795-D-142-50					
JJ09	00007.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST					
JJ10	00002.000	EA		0530171-0005	SLEEVE, .625LG .175DIA, LOW TEMP, CLEAR	008795-D-142-51					

DRAFTSMAN	DATE	CRO. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR-0001				
APPD. ENG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 2261935-5001	REV	8

ITEM NO	DESCRIPTION	UNIT	QUANTITY	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	PLANT
1	BK	AR		P1-6	P2-6	DTRR	I
2	WHT			P1-20	P2-20	DSRE	I
3	BK			P1-7	P2-7	SG	I
4	WHT			P1-3	P2-3	XMTDE	I
5	SHIELD			P1-1	P2-1	PROTECTIVE BND	I
6	NO22 WHT	AR		P2-6	P2-8	DCDE	6

- NOTES:
- REPLACE HDW SUPPLIED WITH ITEM 5 ON P2 WITH ITEM 7.
 - CRIMP ITEM 6 TO ITEM 8 AND INSERT IN P2-6 AND P2-8. JOIN PIGTAILS WITH ITEM 1 AND SOLDER. COVER JOINT WITH ITEM 10.
 - REMOVE SCREW FROM ITEM 11. LAY ITEM 12 IN THIMBLE OF ITEM 11 AND SLIDE ITEM 11 ONTO ITEM 3 SO THAT ITEM 12 IS BETWEEN ITEM 3 AND ITEM 11. INSERT SCREW INTO ITEM 11 AND TIGHTEN SCREW SO THAT IT COMES THROUGH ITEM 11 AND PROTRUDES FROM ITEM 3 AS SHOWN. DISCARD CONNECTOR SECURING CLIPS AND SCREWS PROVIDED WITH ITEM 5.
 - MARK PER 2265070 LINE 4 TEXT *CPU END (LENGTH)*
 - MARK PER 2265070 LINE 4 TEXT *PRINTER END (LENGTH)*
 - BEFORE LUGGING USE ITEM 16 TO INSULATE SHIELD OF CABLE (ITEM 1) AT BOTH ENDS.
 - ITEM IDs IN -0010-0020-0030-0040-0050-0060-0070, -0080-0090, -0100-0200-0300-0400-0500-0600-0700, -0800-0900, & 1000 LMS CONSIST OF BULK CABLE ASSY MATERIAL.

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		REVISIONS		
		(1) ADDED NOTE 3 (3) ADDED ITEM 11, 12	11/1/75	Reid
		(2) ADDED NOTE 3 (3) ADDED ITEM 11, 12		
		(3) ADDED ITEM 11, 12		
		(4) ADDED -2000 LMS		
B		ADDED ITEM 11, 12	11/1/75	Reid
		NEW LMS FOR -0010, -0020, -0030, -0040, -0050, -0060, -0070, -0080 & -0090		
C		ON 912635 (E.O.P. 11) L/M, ITEM 1 WAS -0001	11/1/75	Reid
D		CN 419531 (D) FROM (1) ON ALL L/M QTY OF ITEM 2 WAS 1 (2) ADDED ITEM 14 TO ALL L/M (3) ITEM 10 WAS 4 (1) ITEM 10 ON ALL L/M (4) ADDED NEW CABLE MARKING	10-1-76	J.R. Kelly
E		ADDED ITEM 10 TO -0010-0020-0030, -0100-1000 LMS (3) DELETED ITEM 13 & ADDED ITEM 15	2-6-78	J.R. Kelly
F		CN 443376 (D) FROM (1) REVISIONS PER EXTENSIVE ENGRS CHANGES	1-30-80	J.R. Kelly
G		CN 443263 (D) FROM (1) REVISIONS PER EXTENSIVE ENGRS CHANGES	1-30-80	J.R. Kelly
H		CN 456050 (C) FROM (1) REVISIONS PER EXTENSIVE ENGRS CHANGES	1-30-80	J.R. Kelly



DASH NO	DIM A
- 1000	1000 FT ± 60 IN
- 0900	900 FT ± 60 IN
- 0800	800 FT ± 60 IN
- 0700	700 FT ± 60 IN
- 0600	600 FT ± 60 IN
- 0500	500 FT ± 60 IN
- 0400	400 FT ± 60 IN
- 0300	300 FT ± 24 IN
- 0200	200 FT ± 24 IN
- 0100	100 FT ± 12 IN
- 0090	90 FT ± 10 IN
- 0080	80 FT ± 9 IN
- 0070	70 FT ± 8 IN
- 0060	60 FT ± 7 IN
- 0050	50 FT ± 6 IN
- 0040	40 FT ± 6 IN
- 0030	30 FT ± 6 IN
- 0020	20 FT ± 6 IN
- 0010	10 FT ± 6 IN

PART NUMBER	DESCRIPTION
975056 - 5999	BULK CABLE ASSY MATL FOR -1000
- 5900	-0900
- 5800	-0800
- 5700	-0700
- 5600	-0600
- 5500	-0500
- 5400	-0400
- 5300	-0300
- 5200	-0200
- 5100	-0100
- 5090	-0090
- 5080	-0080
- 5070	-0070
- 5060	-0060
- 5050	-0050
- 5040	-0040
- 5030	-0030
- 5020	-0020
- 5010	-0010
- 0900	BULK CABLE ASSY MATL FOR -0010
- 0800	CABLE ASSY, EXTN, EIA LINE PRINTER, 1000 FT
- 0700	900 FT
- 0600	800 FT
- 0500	600 FT
- 0400	400 FT
- 0300	300 FT
- 0200	200 FT
- 0100	100 FT
- 0090	90 FT
- 0080	80 FT
- 0070	70 FT
- 0060	60 FT
- 0050	50 FT
- 0040	40 FT
- 0030	30 FT
- 0020	20 FT
975056 - 0010	CABLE ASSY, EXTN, EIA LINE PRINTER, 10 FT

P1 P2
6 6-8
20 20
7 7
3 3
1 GND 1

THIS EXTENSION CABLE GOES @ CPU. REGULAR 810 CABLE GOES FROM EXT. CABLE TO 810

TO OPPOSITE USE END FROM 810 CABLE TO PRINTER. THE 11-11 REMOVE 20-20

PROCESSES:
* MARK PER F-100, METHOD III CLASS 12.
* COLOR BLACK, TYPE 3
Z. SOLDER PER F-127, METHOD I

UNLESS OTHERWISE SPECIFIED:
REMOVE ALL BURRS AND SHARP EDGES
CONCENTRICITY MACHINED DIAMETERS .010 F12
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES
ANGLES ± 1°
3 PLACE DECIMALS ± 0.010
2 PLACE DECIMALS ± 0.02

MATERIAL:

HOLE TOLERANCE
+0.15 +.004 1.25 +.005 1.75 +.005 2.50 +.006 3.75 +.006 5.00 +.007 7.50 +.008 10.00 +.010 15.00 +.012 20.00 +.015 25.00 +.020 30.00 +.025 37.50 +.030 50.00 +.040 75.00 +.050 100.00 +.060 150.00 +.075 200.00 +.100 250.00 +.125 300.00 +.150 375.00 +.200 500.00 +.250 750.00 +.300 1000.00

DATE: 11-22-74
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
ENGR: [Signature]
QA: [Signature]
APVD: [Signature]

CONTR NO:
DESIGN ACTIVITY RELEASE:
SCALE: [Blank]
SHEET: [Blank]

Texas Instruments Equipment Group Dallas, Texas

CABLE ASSY, EXTENSION, EIA LINE PRINTER

SIZE: D CODE IDENT NO: 96214 DRAWING NO: 975056

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0010		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5010	BULK CABLE ASSEMBLY MATERIAL FOR -0010						
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
							8190	PART NUMBER		LM 0975056-0010	REV H

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0020		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5020	BULK CABLE ASSEMBLY MATERIAL FOR -0020						
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		LM 0975056-0020	REV H

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0030		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5030	BULK CABLE ASSEMBLY MATERIAL FOR -0030						
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		LM 0975056-0030	REV H

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0040		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5040	BULK CABLE ASSEMBLY MATERIAL FOR -0040						
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		LM 0975056-0040	REV H

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0050		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	FA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5050	BULK CABLE ASSEMBLY MATERIAL FOR -0050						
DRAFTSMAN _____ DATE _____ CDD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 50FT											
APPD MFG _____ DATE _____ APPD PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM 0975056-0050 REV H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0060		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5060	BULK CABLE ASSEMBLY MATERIAL FOR -0060						
DRAFTSMAN _____ DATE _____ CDD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 60FT											
APPD MFG _____ DATE _____ APPD PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM 0975056-0060 REV H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0070		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5070	BULK CABLE ASSEMBLY MATERIAL FOR -0070						
DRAFTSMAN _____ DATE _____ CDD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 70FT											
APPD MFG _____ DATE _____ APPD PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM 0975056-0070 REV H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0080		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	FA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5080	BULK CABLE ASSEMBLY MATERIAL FOR -0080						
DRAFTSMAN _____ DATE _____ CDD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 80FT											
APPD MFG _____ DATE _____ APPD PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM 0975056-0080 REV H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0090		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5090	BULK CABLE ASSEMBLY MATERIAL FOR -0090						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 90FT											
APPD-MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO DATE PROJECT NO PART NUMBER REV LM 0975056-0090 H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0100		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5100	BULK CABLE ASSEMBLY MATERIAL FOR -0100						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 100FT											
APPD-MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO DATE PROJECT NO PART NUMBER REV LM 0975056-0100 H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0200		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5200	BULK CABLE ASSEMBLY MATERIAL FOR -0200						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 200FT											
APPD-MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO DATE PROJECT NO PART NUMBER REV LM 0975056-0200 H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0300		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5300	BULK CABLE ASSEMBLY MATERIAL FOR -0300						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 300FT											
APPD-MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO DATE PROJECT NO PART NUMBER REV LM 0975056-0300 H											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0400		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1			
0003A					P1				
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1			
0004A					P2				
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2			
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2			
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419			
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F				
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE				
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1				
0101	00001.000	EA		0975056-5400	BULK CABLE ASSEMBLY MATERIAL FOR -0400				

DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, EXTN, EIA LINE PRINTER, 400FT			
APPD. MFG	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0975056-0400 H			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0500		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1			
0003A					P1				
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1			
0004A					P2				
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2			
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2			
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419			
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F				
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE				
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1				
0101	00001.000	EA		0975056-5500	BULK CABLE ASSEMBLY MATERIAL FOR -0500				

DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, EXTN, EIA LINE PRINTER, 500FT			
APPD. MFG	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0975056-0500 H			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0600		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1			
0003A					P1				
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1			
0004A					P2				
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2			
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2			
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419			
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F				
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE				
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1				
0101	00001.000	EA		0975056-5600	BULK CABLE ASSEMBLY MATERIAL FOR -0600				

DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, EXTN, EIA LINE PRINTER, 600FT			
APPD. MFG	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0975056-0600 H			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0700		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1			
0003A					P1				
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1			
0004A					P2				
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2			
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2			
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419			
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F				
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE				
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1				
0101	00001.000	EA		0975056-5700	BULK CABLE ASSEMBLY MATERIAL FOR -0700				

DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, EXTN, EIA LINE PRINTER, 700FT			
APPD. MFG	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0975056-0700 H			

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0800		REV H		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1						
0003A					P1							
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1						
0004A					P2							
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2						
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2						
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419						
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F							
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE							
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1							
0101	00001.000	EA		0975056-5800	BULK CABLE ASSEMBLY MATERIAL FOR -0800							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY,EXTN,EIA LINE PRINTER,800FT					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975056-0800					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0900		REV H		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1						
0003A					P1							
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1						
0004A					P2							
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2						
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2						
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419						
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F							
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE							
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1							
0101	00001.000	EA		0975056-5900	BULK CABLE ASSEMBLY MATERIAL FOR -0900							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY,EXTN,EIA LINE PRINTER,900FT					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975056-0900					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-1000		REV H		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1						
0003A					P1							
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1						
0004A					P2							
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2						
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2						
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419						
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F							
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE							
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1							
0101	00001.000	EA		0975056-5999	BULK CABLE ASSEMBLY MATERIAL FOR -1000							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY,EXTN,EIA LINE PRINTER,1000FT					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975056-1000					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5010		REV H		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00010.000	FT		0539883-0002	CABLE 4 COND 25SHIELDED & 2UNSHIELD INSUL							
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	085480-SLPF-19319-4						
0006	00000.500	FT		2210012-3999	WIRE, MHT, UL 1429, 19X34, 22AWG	090484-XVB1934U9P						
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST						
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST						
0010	00000.083	FT		0972146-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-P0135125C1/16						
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2* .106 ID .016 THK PVC	003890-HT-105C-10						
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0010					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975056-5010					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5020		REV H		
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00020.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL	085480-SLPF-19319-4						
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	090484-XVB1934U9P						
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	AMP -205201-3 ST						
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST						
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	003890-PO135125C1/16						
0010	00000.083	FT		0972144-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10						
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0020					
APPROV. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975056-5020 H					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5030		REV H		
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00030.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL	085480-SLPF-19319-4						
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	090484-XVB1934U9P						
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	AMP -205201-3 ST						
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST						
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	003890-PO135125C1/16						
0010	00000.083	FT		0972144-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10						
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0030					
APPROV. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975056-5030 H					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5040		REV H		
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00040.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL	085480-SLPF-19319-4						
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	090484-XVB1934U9P						
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	AMP -205201-3 ST						
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST						
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	003890-PO135125C1/16						
0010	00000.083	FT		0972144-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10						
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0040					
APPROV. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975056-5040 H					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5050		REV H		
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00050.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL	085480-SLPF-19319-4						
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	090484-XVB1934U9P						
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	AMP -205201-3 ST						
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST						
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	003890-PO135125C1/16						
0010	00000.083	FT		0972144-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10						
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0050					
APPROV. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0975056-5050 H					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5060		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00060.000	FT		0539883-0002	CABLE + COND 2SHIELDED & ZUNSHIELD INSUL						
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	085480-SLPF-19319-4					
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	090484-XV81934U9P					
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST					
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0010	00000.083	FT		0972146-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-P0135125C1/16					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2* .106 ID .016 THK PVC	003890-HT-105C-10					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO											
BULK CABLE ASSEMBLY MATERIAL FOR -0060											
PART NUMBER LM 0975056-5060											
REV H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5070		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00070.000	FT		0539883-0002	CABLE + COND 2SHIELDED & ZUNSHIELD INSUL						
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	085480-SLPF-19319-4					
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	090484-XV81934U9P					
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST					
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0010	00000.083	FT		0972146-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-P0135125C1/16					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2* .106 ID .016 THK PVC	003890-HT-105C-10					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO											
BULK CABLE ASSEMBLY MATERIAL FOR -0070											
PART NUMBER LM 0975056-5070											
REV H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5080		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00080.000	FT		0539883-0002	CABLE + COND 2SHIELDED & ZUNSHIELD INSUL						
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	085480-SLPF-19319-4					
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	090484-XV81934U9P					
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST					
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0010	00000.083	FT		0972146-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-P0135125C1/16					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2* .106 ID .016 THK PVC	003890-HT-105C-10					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO											
BULK CABLE ASSEMBLY MATERIAL FOR -0080											
PART NUMBER LM 0975056-5080											
REV H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5090		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00090.000	FT		0539883-0002	CABLE + COND 2SHIELDED & ZUNSHIELD INSUL						
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	085480-SLPF-19319-4					
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	090484-XV81934U9P					
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST					
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0010	00000.083	FT		0972146-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-P0135125C1/16					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2* .106 ID .016 THK PVC	003890-HT-105C-10					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO											
BULK CABLE ASSEMBLY MATERIAL FOR -0090											
PART NUMBER LM 0975056-5090											
REV H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5100		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00100.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	003890-P0135125C1/16					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						

DRAFTSMAN	DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0100				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975056-5100				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5200		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00200.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	003890-P0135125C1/16					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						

DRAFTSMAN	DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0200				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975056-5200				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5300		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00300.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	003890-P0135125C1/16					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						

DRAFTSMAN	DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0300				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975056-5300				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5400		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00400.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	003890-P0135125C1/16					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						

DRAFTSMAN	DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0400				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975056-5400				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975056-5500		REV H		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00500.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	0539883-0002						
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPF-19319-4						
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P						
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST						
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST						
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16						
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC	003890-HT-105C-10						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0500					
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM0975056-5500					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975056-5600		REV H		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00600.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	0539883-0002						
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPF-19319-4						
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P						
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST						
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST						
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16						
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC	003890-HT-105C-10						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0600					
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM0975056-5600					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975056-5700		REV H		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00700.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	0539883-0002						
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPF-19319-4						
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P						
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST						
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST						
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16						
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC	003890-HT-105C-10						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0700					
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM0975056-5700					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975056-5800		REV H		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00800.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	0539883-0002						
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPF-19319-4						
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P						
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST						
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST						
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16						
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC	003890-HT-105C-10						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0800					
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM0975056-5800					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5900		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00900.000	FT		0539883-0002	CABLE 4 COND ZSHIELDED & ZUNSHIELD INSUL						
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPP-19319-4					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16"					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2* .106 ID .016 THK PVC	003890-HT-105C-10					

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0900				
APPD MFG	DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975056-5900				
							REV H				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5999		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	01000.000	FT		0539883-0002	CABLE 4 COND ZSHIELDED & ZUNSHIELD INSUL						
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPP-19319-4					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16"					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2* .106 ID .016 THK PVC	003890-HT-105C-10					

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -1000				
APPD MFG	DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975056-5999				
							REV H				

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	REV	DESCRIPTION	DATE	APPROVED
2262090	7506	A	CN433593 (E) <i>K. Doerfler</i>	1-28-80	<i>K. Doerfler</i>
		B	CN450522 (C) <i>K. Doerfler</i>	1-28-80	<i>K. Doerfler</i>

2262091-0016	KIT, TERMINAL, 820 KSR, 220, CSA, PSF, KFS
0015	115, PSF, KFS
0014	220, PSF, KFN
0013	115, PSF, KFN
0012	220, PCF, KFS
0011	115, PCF, KFS
0010	220, PCF, KFN
0009	115, PCF, KFN
0008	220, PSF, KFS, MFG
0007	115, PSF, KFS, MFG
0006	220, PCF, KFS, MFG
0005	115, PCF, KFS, MFG
0004	220, PSF, KFN, MFG
0003	115, PSF, KFN, MFG
0002	220, PCF, KFN, MFG
2262091-0001	KIT, TERMINAL, 820 KSR, 115, CSA, PCF, KFN, MFG
TI PART NO.	DESCRIPTION

REV																			
SHEET																			
REV STATUS OF SHEETS	REV	B	B																
	SHEET	1	2																
UNLESS OTHERWISE SPECIFIED	DWN	D. Dailey	DATE	8/23/78	TEXAS INSTRUMENTS INCORPORATED Dallas, Texas														
• DIMENSIONS ARE IN INCHES	ENGR	<i>D. Dailey</i>	DATE	8-23-78	KIT, TERMINAL, 820 KSR														
• TOLERANCES: ANGLES ±1°	APVD	<i>D. Dailey</i>	DATE	8-28-78															
3 PLACE DECIMALS ±.010	ENGR	<i>D. Dailey</i>	DATE	9-7-78															
2 PLACE DECIMALS ±.02	APVD	<i>D. Dailey</i>	DATE	9-7-78															
• PARENTHETICAL INFO FOR REF ONLY	CONTR	<i>D. Dailey</i>	DATE	9/6/78															
	RLSE	<i>Tom Bailey</i>	DATE	9-21-78	SIZE	FSCM NO	A96214	DRAWING NO	2262091										
		<i>T.M.C.</i>	DATE	10/20/78	SCALE	NONE		SHEET	1 OF 2										

NOTES

1. Model 820 KSR hardware configuration table of Mnemonics:

PRINTER CONFIGURATION

MNEMONIC	DESCRIPTION
115	Voltage operation 90V to 130V, 47 to 63 HZ.
220	Voltage operation 180V to 260V, 47 to 63 HZ.
CSA	Standard EIA RS-232-C interface.
PSF	Standard printer.
PCF	Compressed print option.
MFG	Device/forms control option.

KEYBOARD OPTIONS

MNEMONIC	DESCRIPTION
KFS	Standard Full ASCII
KFN	Standard Full ASCII with numeric pad.

DWN	K. Doerfler	DATE	1/23/80	SIZE	FSCM NO	A96214	DRAWING NO	2262091	REV	B
		ISSUE DATE		SCALE			SHEET	2		

TEXAS INSTRUMENTS INCORPORATED		DATE 12/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262091-0001		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999686-0101	820 KSR TERMINAL-COMP PR-115V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPER 2208225-9701						
JJ02	00001.000	EA		0999691-0102	KEYBOARD, FULL ASCII W/NUMERIC PAD						
JJ03	00001.000	EA		0999836-0001	DEVICE/FORMS CONTROL OPTION						
JJ04	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DESIGNER		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KIT, TERMINAL, 820KSR, 115, CSA, PCF, KFN, MFG			
APPROV. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 2262091-0001			

TEXAS INSTRUMENTS INCORPORATED		DATE 12/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262091-0003		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999695-0101	820 KSR TERMINAL-STD PRNT-115V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPER 2208225-9701						
JJ02	00001.000	EA		0999691-0102	KEYBOARD, FULL ASCII W/NUMERIC PAD						
JJ03	00001.000	EA		0999836-0001	DEVICE/FORMS CONTROL OPTION						
JJ04	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DESIGNER		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KIT, TERMINAL, 820KSR, 115, CSA, PCF, KFN, MFG			
APPROV. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 2262091-0003			

TEXAS INSTRUMENTS INCORPORATED		DATE 12/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262091-0004		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999695-0201	820 KSR TERMINAL-STD PRNT-220V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPER 2208225-9701						
JJ02	00001.000	EA		0999691-0102	KEYBOARD, FULL ASCII W/NUMERIC PAD						
JJ03	00001.000	EA		0999836-0001	DEVICE/FORMS CONTROL OPTION						
JJ04	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DESIGNER		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KIT, TERMINAL, 820KSR, 220, CSA, PCF, KFN, MFG			
APPROV. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 2262091-0004			

TEXAS INSTRUMENTS INCORPORATED		DATE 12/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262091-0005		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999686-0101	820 KSR TERMINAL-COMP PR-115V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPER 2208225-9701						
JJ02	00001.000	EA		0999691-0101	KEYBOARD, FULL ASCII (STANDARD)						
JJ03	00001.000	EA		0999836-0001	DEVICE/FORMS CONTROL OPTION						
JJ04	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DESIGNER		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KIT, TERMINAL, 820KSR, 115, CSA, PCF, KFN, MFG			
APPROV. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 2262091-0005			

TEXAS INSTRUMENTS INCORPORATED		DATE 12/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262091-0006		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999686-0201	820 KSR TERMINAL-COMP PR-220V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPER 2208225-9701						
JJ02	00001.000	EA		0999691-0101	KEYBOARD,FULL ASCII (STANDARD)						
JJ03	00001.000	EA		0999836-0001	DEVICE/FORMS CONTROL OPTION						
JJ04	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KIT, TERMINAL, 820KSR, 220, CSA, PCF, KFS, MFG			
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2262091-0006		REV B	

TEXAS INSTRUMENTS INCORPORATED		DATE 12/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262091-0007		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999695-0101	820 KSR TERMINAL-STD PRNT-115V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPER 2208225-9701						
JJ02	00001.000	EA		0999691-0101	KEYBOARD,FULL ASCII (STANDARD)						
JJ03	00001.000	EA		0999836-0001	DEVICE/FORMS CONTROL OPTION						
JJ04	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KIT, TERMINAL, 820KSR, 115, CSA, PSF, KFS, MFG			
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2262091-0007		REV B	

TEXAS INSTRUMENTS INCORPORATED		DATE 12/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262091-0008		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999695-0201	820 KSR TERMINAL-STD PRNT-220V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPER 2208225-9701						
JJ02	00001.000	EA		0999691-0101	KEYBOARD,FULL ASCII (STANDARD)						
JJ03	00001.000	EA		0999836-0001	DEVICE/FORMS CONTROL OPTION						
JJ04	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KIT, TERMINAL, 820KSR, 220, CSA, PSF, KFS, MFG			
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2262091-0008		REV B	

TEXAS INSTRUMENTS INCORPORATED		DATE 12/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262091-0009		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999686-0101	820 KSR TERMINAL-COMP PR-115V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPER 2208225-9701						
JJ02	00001.000	EA		0999691-0102	KEYBOARD,FULL ASCII W/NUMERIC PAD						
JJ03	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KIT, TERMINAL, 820KSR, 115, CSA, PCF, KFN			
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2262091-0009		REV B	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 12/14/79		PAGE 1 of		PART NUMBER LM 2262091-0010		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999686-0201	820 KSR TERMINAL-COMP PR-220V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPEK 2208225-9701						
JJ02	00001.000	EA		0999691-0102	KEYBOARD,FULL ASCII W/NUMERIC PAD						
JJ03	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE KIT, TERMINAL, 820KSR, 220, CSA, PCF, KFN											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2262091-0010 B											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 12/14/79		PAGE 1 of		PART NUMBER LM 2262091-0011		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999686-0101	820 KSR TERMINAL-COMP PR-115V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPEK 2208225-9701						
JJ02	00001.000	EA		0999691-0101	KEYBOARD,FULL ASCII (STANDARD)						
JJ03	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE KIT, TERMINAL, 820KSR, 115, CSA, PCF, KFS											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2262091-0011 B											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 12/14/79		PAGE 1 of		PART NUMBER LM 2262091-0012		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999686-0201	820 KSR TERMINAL-COMP PR-220V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPEK 2208225-9701						
JJ02	00001.000	EA		0999691-0101	KEYBOARD,FULL ASCII (STANDARD)						
JJ03	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE KIT, TERMINAL, 820KSR, 220, CSA, PCF, KFS											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2262091-0012 B											

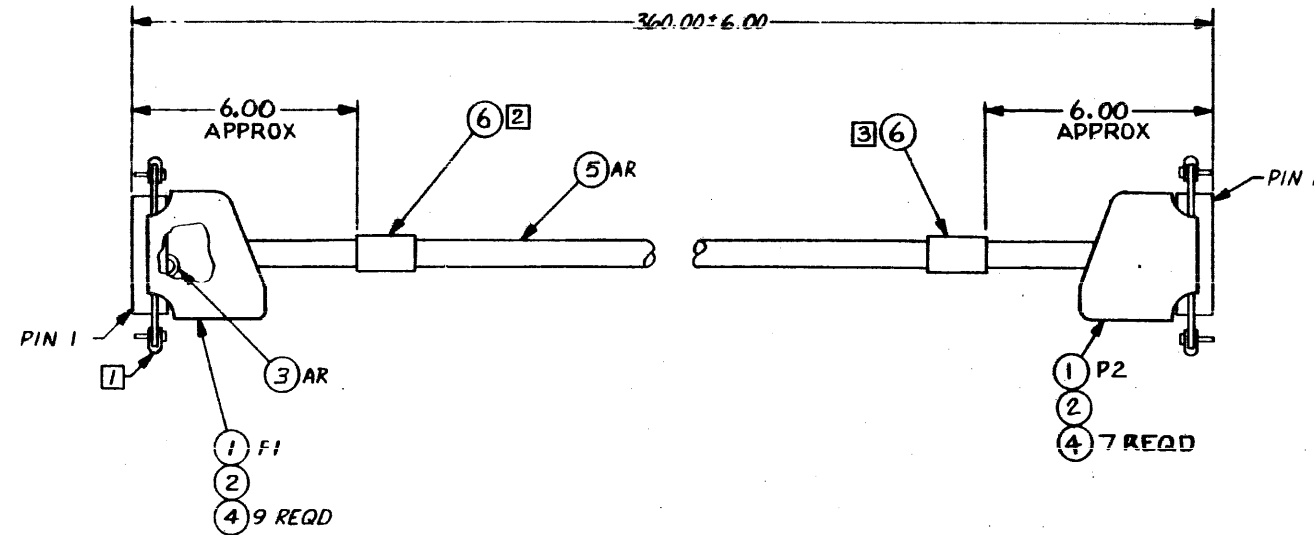
TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 12/14/79		PAGE 1 of		PART NUMBER LM 2262091-0013		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0999695-0101	820 KSR TERMINAL-STD PRNT-115V						
JJ01A					PAPD 820KSR IS AS FOLLOWS:						
JJ01B					QTY DESCRIPTION P/N						
JJ01C					1 MNL,OPEK 2208225-9701						
JJ02	00001.000	EA		0999691-0102	KEYBOARD,FULL ASCII W/NUMERIC PAD						
JJ03	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE KIT, TERMINAL, 820KSR, 115, CSA, PCF, KFN											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2262091-0013 B											

TEXAS INSTRUMENTS INCORPORATED		DATE 12/14/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 2262091-0014		REV B			
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
JJ01	00001.000	EA		0999695-0201	820 KSR TERMINAL-STD PRNT-220V								
JJ01A					PAPG 820KSR IS AS FOLLOWS:								
JJ01B					QTY DESCRIPTION P/N								
JJ01C					1 MNL,OPER 2208225-9701								
JJ02	00001.000	EA		0599691-0102	KEYBOARD,FULL ASCII W/NUMERIC PAD								
JJ03	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED								
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE KIT, TERMINAL, 820KSR, 220, CSA, PSF, KFM						
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					PART NUMBER LM 2262091-0014	REV B

TEXAS INSTRUMENTS INCORPORATED		DATE 12/14/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 2262091-0015		REV B			
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
JJ01	00001.000	EA		0999695-0101	820 KSP TERMINAL-STD PRNT-115V								
JJ01A					PAPG 820KSR IS AS FOLLOWS:								
JJ01B					QTY DESCRIPTION P/N								
JJ01C					1 MNL,OPER 2208225-9701								
JJ02	00001.000	EA		0999691-0101	KEYBOARD,FULL ASCII (STANDARD)								
JJ03	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED								
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE KIT, TERMINAL, 820KSR, 115, CSA, PSF, KFS						
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					PART NUMBER LM 2262091-0015	REV B

TEXAS INSTRUMENTS INCORPORATED		DATE 12/14/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 2262091-0016		REV B			
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
JJ01	00001.000	EA		0999695-0201	820 KSR TERMINAL-STD PRNT-220V								
JJ01A					PAPG 820KSR IS AS FOLLOWS:								
JJ01B					QTY DESCRIPTION P/N								
JJ01C					1 MNL,OPER 2208225-9701								
JJ02	00001.000	EA		0999691-0101	KEYBOARD,FULL ASCII (STANDARD)								
JJ03	00001.000	EA		0999838-0001	PAPER BASKET-TERMINAL MOUNTED								
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE KIT, TERMINAL, 820KSR, 220, CSA, PSF, KFS						
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					PART NUMBER LM 2262091-0016	REV B

NOTES: UNLESS OTHERWISE SPECIFIED:										REVISIONS			
1	ATTACH SCREW/RETAINER KIT FROM ITEM 2 TO ITEM 1 (2PL)									REV	DESCRIPTION	DATE	APPROVED
2	MARK PER 2265070, LINE 4 TEXT "P1 (820KSR)"									A	CNA 47060 (D) C Laminis (1) LM ITEM 6 QTY WAS 4 AND DIN WAS 418201-60 (2) ADDED NOTES 2, 3, AND 4 (3) DELETED PROCESS 1 (4) ON PICTORIAL DELETED 12.00 ± 6.00 AND 24.00 ± 6.00 NMS (5) ADDED 6.00 APPROX DIM 2 PL.	5-23-79	E. King
3	MARK PER 2265070, LINE 4 TEXT "P2 (990E1A)"									B	CN 448144 (C) J. Laminis (1) CREATED - 5001 LM (2) ADDED ITEM 101 (3) ADDED NOTE 5 (4) ADDED PART NO. BLOCK	11-28-79	David
4	FOR REFERENCE ONLY, INTERNAL WIRE COLORS ARE YOUR OPTION												
5	ITEM 101 IN -0001 LM CONSISTS OF BULK CABLE ASSY. MATERIAL												
WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	ITEM NO.					
1	NO 22 BLK	360			P1-2	P2-2	XMTD	5					
2	RED				P1-3	P2-3	RCVD						
3	GRN				P1-6	P2-6	DSR						
4	WHT				P1-7	P2-7	LOGIC GND						
5	BRN				P1-8	P2-8	DCD						
6	BLU	360			P1-11	P2-20	BUSY						
7	DRN	360			P1-20	P2-18	DTR						
8	NO 22 WHT	3			P1-4	P1-5	RTS-CTS	3					



2262093-5001	BULK CABLE ASSY. MATERIAL FOR -0001
5 2262093-0001	CABLE ASSY, 820KSR - 990E1A
PART NO	DESCRIPTION

S/C NO	IDENT	F.SPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

-1 QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
<small>UNLESS OTHERWISE SPECIFIED: * DIMENSIONS ARE IN INCHES * TOLERANCES - ANGLES .1° 3 PLACE DECIMALS ± .010 2 PLACE DECIMALS ± .02 * INTERPRET DRAWING PER MIL D 1000 * REMOVE ALL D BENDS AND WARPED EDGES * CLAMP FINISHES MAXIMUM DIAMETERS .010 FIM * DIMENSIONAL LIMITS APPLY BEFORE FINISHES * PARENTHETICAL INFO FOR REF ONLY</small>					
2262090	7506				
NEXT ASSY USED ON		APPLICATION			

DATE: 10/13/78
 DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DRAWING NO: C 96214
 SHEET: 1 OF 1
 TEXAS INSTRUMENTS
 CABLE ASSY, 820 KSR - 990 E1A
 DRAWING NO: 2262093
 SCALE: NONE

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 11/12/79		PAGE 1 of		PART NUMBER LM 2262093-0001		REV A		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	0007.000	FA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -20570R-1						
0001A					P1 P2							
0002	00002.000	FA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 PINS	000779-2-20647R-2						
01 01	00001.000	FA		2262093-5001	BULK CABLE ASSEMBLY MATERIAL FOR-0001							
DRAFTSMAN		DATE	CED	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
				<i>H. K. [Signature]</i>	11-13-79			CABLE ASSEMBLY, A20KSR-990E1A				
APPD. MFG.		DATE	APPD.	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER			REV
								7506	LM 2262093-0001			A

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 11/12/79		PAGE 1 of		PART NUMBER LM 2262093-5001		REV B		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0003	00000.250	FT		2210012-3999	WTRF, WHT, UL 1429, 19X34, 22AWG	090484-KVB1934U9P						
0004	00016.000	FA		0539430-0003	CONTACT, PIN 24-20AWG .06R INSUL DIA	AMP -205702-2 ST						
0005	00030.000	FT		0972444-0015	CABLE, #22 AWG 7 COND 1061/2464 UL STYLE	054387-2506226						
0006	00002.000	FA		2210317-0001	LABEL, BLANK, CABLE MARKER	085480-SLPF-19314-4						
DRAFTSMAN		DATE	CED	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
								BJLK CABLE ASSEMBLY MATERIAL FOR-0001				
APPD. MFG.		DATE	APPD.	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER			REV
									LM 2262093-5001			B

NOTES, UNLESS OTHERWISE SPECIFIED:

- 1 ATTACH SCREW/RETAINER KIT FROM ITEM 3 TO ITEMS 1 AND 2
- 2 MARK PER 2265070, LINE 4 TEXT "P1 (820KSR)"
- 3 MARK PER 2265070, LINE 4 TEXT "P2 (990 COMM)"
- 4 FOR REFERENCE ONLY, INTERNAL WIRE COLORS ARE VENDOR OPTION
- 5 ITEM 101 IN -0001 LM CONSISTS OF BULK CABLE ASSY MATERIAL

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	MINI ITEM NO.
1	NO 22, BLACK	360			P1-2	P2-3	XMTD	7
2	RED				-3	-2	RCVD	
3	GREEN				-6	-20	DSR	
4	WHITE				-7	-7	LOGIC GND	
5	BROWN				-8	-4	DCD	
6	BLUE				-11	-5	BUSY	
7	ORANGE	360			-20	P2-6	DTR	7
8	NO 22, WHITE	3			P1-4	P1-5	RTS-CTS	8

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN4482031C) A02-0-11) ROTATED ITEM 2 (P2) 45° CCW	1-22-79	<i>E. N. Day</i>
B	CN447113 (D) ... LM ITEM 4 QTY WAS 4, P/N WAS 418201-0060 (2) ON F/D QTY OF 4 WAS 4 (3) DELETED PROCESS 1 (4) (2) (3) WAS MARK 2262096-1, P1 # ... P2 APPROV LTR (5) DELETED 24.0±6.0 2PL, MARK T1 (6) 6.00 APPROX WAS 18.0±6.0 2PL (7) ADDED NOTES 2, 3 & 4	6-7-79	<i>L. K. ...</i>
C	CN448146 (L) ... (1) CREATED -5001 LM (2) ADDED ITEM 101 TO -0001 LM (3) ADDED NOTE 5 (4) ADDED P/N BLCK	11-28-79	<i>J. ...</i>

5	2262096-5001	BULK CABLE ASSY MATL FOR -0001
	2262096-0001	CABLE ASSY, 820KSR-990 COMM
	PART NO.	DESCRIPTION

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

MARK 100-07		712 COLOR BLK, TYPE 8	
IDENT	F.SPEC	NO	ADDITIONAL
NO	PROCESS	CLASSIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED	
• DIMENSIONS ARE IN INCHES	• TOLERANCES: ANGLES ± 1°
• 3 PLACE DECIMALS ± 0.01	• 2 PLACE DECIMALS ± 0.02
• INTERPRET DRAWING PER MIL-D-1000	• REMOVE ALL SHARP AND CHAMFER EDGES
• CONCENTRICITY MACHINED DIAMETERS 0.01 FIM	• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
• FRACTIONAL INCH HOLES ONLY	
HOLE TOLERANCE	± .001
THRU .004	THRU .005
THRU .006	THRU .008
THRU .008	THRU .010
THRU .010	THRU .012
THRU .012	THRU .014
THRU .014	THRU .016
THRU .016	THRU .018
THRU .018	THRU .020

DATE: 10-16-78	TEXAS INSTRUMENTS
10-26-78	INCORPORATED
	Dallas, Texas
	CABLE ASSY, 820KSR-990 COMM
96214	DRAWING NO. 2262096
NONE	SHEET

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262096-5001		REV C		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0004	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	085480-SLFF-19119-4				
0005	00007.000	FA		0539630-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST				
0006	00009.000	EA		0539630-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST				
0007	00030.000	FT		0972444-0015	CABLE, #22 AWG 7 COND 1061/2464 UL STYLE	054387-2536726				
0008	00000.250	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	090484-XVB1934U9P				
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR-0001			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2262096-5001		
								REV C		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262096-0001		REV C		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	FA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205205-1				
0001A					P1					
0002	00001.000	FA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1				
0002A					P2					
0003	00002.000	FA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DFG., 25 PDS	030779-2-206478-7				
0101	00001.000	EA		2262096-5001	BULK CABLE ASSEMBLY MATERIAL FOR-0001					
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSEMBLY, 820KSP-990 COMM			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. 7506	PART NUMBER LM 2262096-0001		
								REV C		

NOTES, UNLESS OTHERWISE SPECIFIED:

- ATTACH SCREW/RETAINER KIT FROM ITEM 3 TO ITEM 1.
- ATTACH ITEM 5 TO ITEM 2. DISCARD REMAINING SCREW/RETAINER KIT FROM ITEM 3.
- MARK PER 2265070, LINE 4 TEXT "P1(820KSR)"
- MARK PER 2265070, LINE 4 TEXT "P2(EXTENSION)"
- FOR BILL OF MATERIAL ONLY, INTERNAL WIRE COLORS ARE VENDOR OPTION
- ITEM 101 IN -0001 LM CONSISTS OF BULK LABEL ASSEMBLY MATERIAL

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	ITEM NO.
1	NO 22 BLK	600			P1-2	P2-2	AMTD	8
2	NO 22 RED	600			P1-3	P2-3	RCVD	8
3	NO 22 GRN	600			P1-6	P2-6	DSR	8
4	NO 22 WHT	600			P1-7	P2-7	LOGIC GND	8
5	NO 22 BRN	600			P1-8	P2-8	DCD	8
6	BLU	600			P1-11	P2-11	BUSY	8
7	ORN	600			P1-20	P2-20	DTR	8
8	NO 22 WHT	3			P1-4	P1-5	RTS-CTS	9

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN447114 (D) REV. (1) ITEM 4 PN WAS 418201-0060, QTY WAS 4 (2) ADDED NOTES 3, 4 & 5 (3) DELETED PROCESS 1 (4) DELETED DIM 29.00 TO 6.00, 2 PL (5) DIM 6.00 APPROX WAS 18.00 ± 6.00, 2 PL	6-25-79	B. R. ...
B	CN448145 (C) 3 MILL (EXPLAINED) -5001 LM (2) ADDED ITEM 101 TO -0001 LM (3) ADDED FLAG NOTE 6 (4) ADDED P/N BLOCK	11-28-79	B. R. ...

2262094-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001
2262094-0001	CABLE ASSEMBLY, EXTENSION, 820KSR
PART NO	DESCRIPTION

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED:

- DIMENSIONS ARE IN INCHES
- TOLERANCES: ANGLES .15°
- 3 PLACE DECIMALS ± .010
- 2 PLACE DECIMALS ± .02
- INTERNAL FINISHES PER MIL STD 20
- REMOVE ALL SHARP AND VERTICAL EDGES
- CONCENTRICITY MAX HUNDRETHS THRU .010 FIM
- DIMENSIONAL LIMITS APPLY TO FORM PROCESSES
- PARENTHESES IN DIMENSIONS ARE FOR INFORMATION ONLY

MOLE TOLERANCE: .013 THRU .001, .005 THRU .001, .001 THRU .001, .001 THRU .001, .001 THRU .001, .001 THRU .001

DATE: 10-16-78
BY: W. C. ...
CHECKED: ...
DATE: 10-26-78

TEXAS INSTRUMENTS
CORPORATION
DALLAS, TEXAS

CABLE ASSY, EXTENSION,
820 KSR

SIZE: 1/8" DIA
C 96214
2262094

MARK: 100-07 712 1/2 R-BLK, TYPE 6

SEQ NO	IDENT	PROCESS	CLASSIFICATION	ADDITIONAL	NOTES

FOR CORRELATION TO GOVT AND SPECIFICATIONS, SEE TI DRAWING 729467

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262094-0001		REV B	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	FA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1			
0001A					P1				
0002	00001.000	FA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1			
0002A					P2				
0003	00002.000	FA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2			
0101	00001.000	FA		2262094-5001	RULK CABLE ASSEMBLY MATERIAL FOR-0001				

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
		J. R. ...	11-13-79			CABLE ASSEMBLY, EXTENSION, 820KSR	
APPROVING	DATE	APPRO PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
						7506	
						PART NUMBER	REV
						LM 2262094-0001	B

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2262094-5001		REV B	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0004	00002.000	FA		2210317-0001	LABEL, BLANK, CABLE MARKER	085480-SLPP-19319-4			
0005	00002.000	FA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIF - 020418-2			
0006	00007.000	FA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST			
0007	00009.000	FA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST			
0008	00050.000	FT		0972444-0015	CABLE, #22 AWG 7 COND 1061/2464 UL STYLE	054187-2536226			
0009	00000.250	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	090484-KV81934U9P			

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
						RULK CABLE ASSEMBLY MATERIAL FOR-0001	
APPROVING	DATE	APPRO PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
						PART NUMBER	REV
						LM 2262094-5001	B

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
	7506	A	CN406824 (C) <i>L. Henry</i>	5-4-76	<i>L. Henry</i>
	7502	B	CN415270 (C) <i>D. Curblend</i>	8/3/76	<i>D. Curblend</i>
		C	CN417108 (B) <i>L. Henry</i>	1-17-77	<i>L. Henry</i>
		D	CN418452 (D) <i>P. McDonald</i>	4-14-77	<i>P. McDonald</i>
		E	CN420009 (A) <i>C. Rasmussen</i>	7-26-77	<i>C. Rasmussen</i>

REV'S CON'T SHEET 2

NOTE:

- THE 990 MAINTENANCE UNITS WILL REQUIRE SYSTEM TESTING PER TEST PROCEDURE 946732 ITEM 2 AND SYSTEM PACKING PER ITEM 10 946706.

946710-0004	960/990 MAINTENANCE UNIT, 230V
946710-0003	960/990 MAINTENANCE UNIT, 115V
946710-0002	990 MAINTENANCE UNIT, 230V
946710-0001	990 MAINTENANCE UNIT, 115V
TI PART NO	DESCRIPTION

REV	STATUS	SHEET

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES
ANGLES ± 1°
3 PLACE DECIMAL ± 0.010
2 PLACE DECIMAL ± 0.2

IDENTIFYING NUMBERS
SHOWN IN PARENTHESES
FOR REFERENCE ONLY

INTERPRET DWG IN
ACCORDANCE WITH
MIL-STD-100

OWNED BY
L. HENRY 3 3/19/76

[Signature] 3/18/76

[Signature] 3/18/76

[Signature] 3/18/76

[Signature] 3/18/76

CONTR NO

DESIGN ACTIVITY RELEASE
[Signature] 3/18/76

[Signature] 3/18/76

TEXAS INSTRUMENTS
INCORPORATED
Equipment Group Dallas, Texas

MAINTENANCE UNIT, 990

SIZE	CODE IDENT NO	DRAWING NO
A	96214	946710

SCALE NONE SHEET 1 OF 2

APPLICATION		REVISIONS			
PROJ. NO.	DASH NO.	LTR	DESCRIPTION	DATE	APPROVED
		F	CN420028 (A) <i>C. Rasmussen</i> (1) UPGRADE ECN 420009 TO DWG 946710 FROM C LEVEL TO A LEVEL.	8-10-77	<i>R. Bunker</i>
		G	CN420030 (C) <i>C. Rasmussen</i>	9-1-77	<i>R. Bunker</i>
		H	CN429946 (C) <i>D. D. Daley</i>	7-22-78	<i>[Signature]</i>

SIZE	CODE IDENT NO	DRAWING NO
A	96214	946710

SCALE	SHEET
	2

TEXAS INSTRUMENTS INCORPORATED		DATE 07/14/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946710-0001		REV H	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	REF	EA		0946679-9901	SPECIFICATION, 990 MAINT UNIT						
0002	REF	EA		0946732-9901	TEST PROCEDURE, 990 MAINT UNIT						
0003	00001.000	EA		0938176-0001	CHASSIS ASSY, 115V						
0004	00001.000	EA		0946712-0001	FRONT PANEL ASSY-990 MAINT UNIT						
0005	00001.000	EA		0946727-0001	CABLE ASSY-72 INCH						
0010	REF	EA		0946706-9901	PACKING INSTRUCTION, 990 MAINTENANCE UNIT						

DESIGNER	DATE	CED. DRAFTER	DATE	DESIGN ENGINEER	DATE	TITLE 990 MAINTENANCE UNIT, 115V					
APP. MFG.	DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. 7504					
						PART NUMBER		REV		H	
						LM0946710-0001				H	

TEXAS INSTRUMENTS INCORPORATED		DATE 07/14/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946710-0002		REV H	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	REF	EA		0946679-9901	SPECIFICATION, 990 MAINT UNIT						
0002	REF	EA		0946732-9901	TEST PROCEDURE, 990 MAINT UNIT						
0003	00001.000	EA		0938176-0002	CHASSIS ASSY, 230V						
0004	00001.000	EA		0946712-0001	FRONT PANEL ASSY-990 MAINT UNIT						
0005	00001.000	EA		0946727-0001	CABLE ASSY-72 INCH						
0009	00001.000	EA		0937782-0001	SP, 990 DIAGNOSTICS KIT (CC01)-990						
0010	REF	EA		0946706-9901	PACKING INSTRUCTION, 990 MAINTENANCE UNIT						

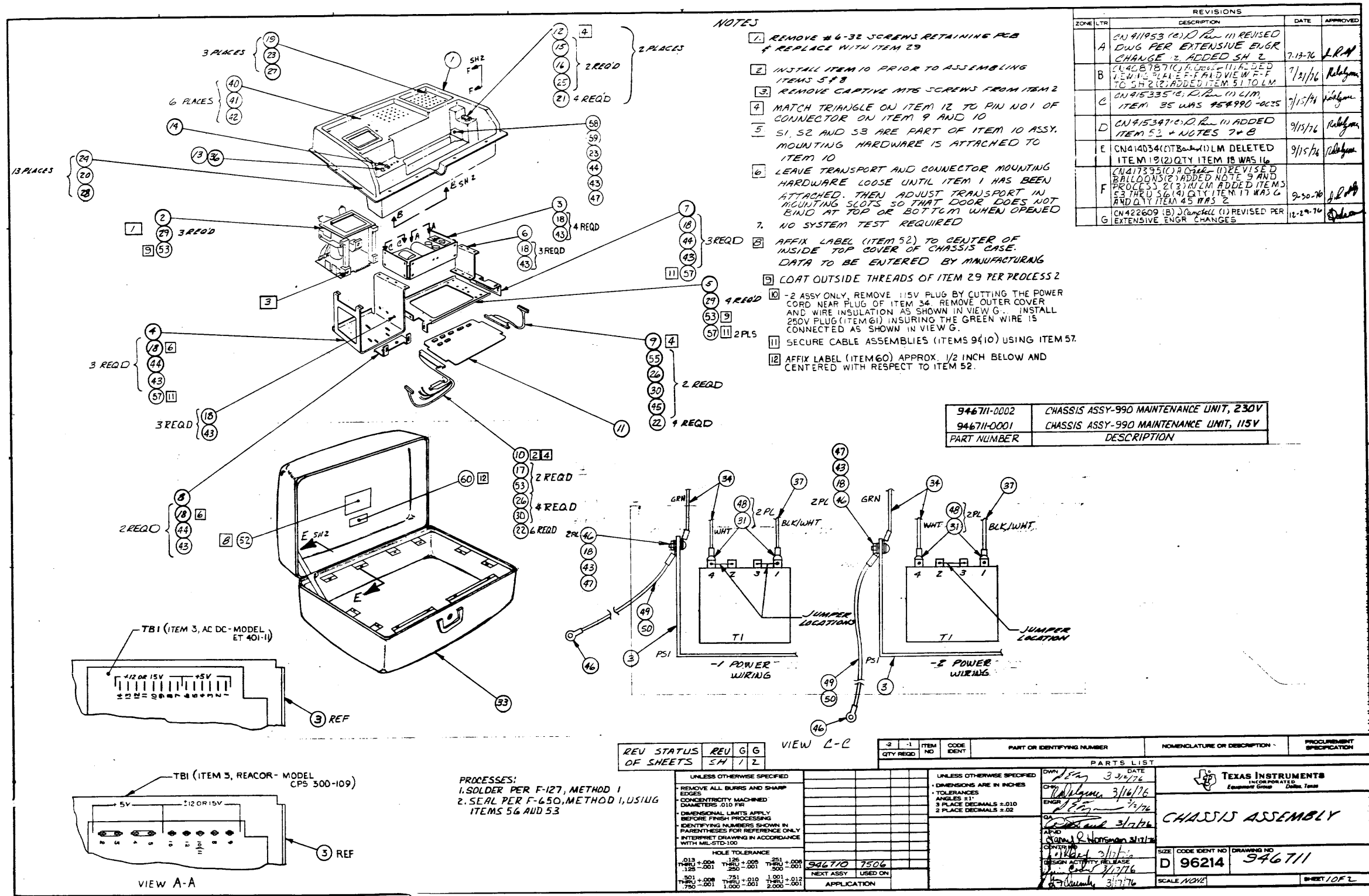
DESIGNER	DATE	CED. DRAFTER	DATE	DESIGN ENGINEER	DATE	TITLE 990 MAINTENANCE UNIT, 230V					
APP. MFG.	DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
						PART NUMBER		REV		H	
						LM0946710-0002				H	

TEXAS INSTRUMENTS INCORPORATED		DATE 07/14/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946710-0003		REV H	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	REF	EA		0946679-9901	SPECIFICATION, 990 MAINT UNIT						
0002	REF	EA		0946732-9901	TEST PROCEDURE, 990 MAINT UNIT						
0003	00001.000	EA		0938176-0001	CHASSIS ASSY, 115V						
0004	00001.000	EA		0946712-0001	FRONT PANEL ASSY-990 MAINT UNIT						
0005	00001.000	EA		0946727-0001	CABLE ASSY-72 INCH						
0006	00001.000	EA		0946765-0001	960 MAINTENANCE EXTENDER CARD						
0007	00001.000	EA		0947986-0003	SP, 960 MDU DIAGNOSTICS KIT-DXS960						
0008	REF	EA		0948017-9901	PD, 914A TROUBLE SHOOTING GUIDE-DXS10/960						
0009	00001.000	EA		0937782-0001	SP, 990 DIAGNOSTICS KIT (CC01)-990						
0010	REF	EA		0946706-9901	PACKING INSTRUCTION, 990 MAINTENANCE UNIT						

DESIGNER	DATE	CED. DRAFTER	DATE	DESIGN ENGINEER	DATE	TITLE 960/990 MAINTENANCE UNIT, 115V					
APP. MFG.	DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
						PART NUMBER		REV		H	
						LM0946710-0003				H	

TEXAS INSTRUMENTS INCORPORATED		DATE 07/14/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946710-0004		REV H	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	REF	EA		0946679-9901	SPECIFICATION, 990 MAINT UNIT						
0002	REF	EA		0946732-9901	TEST PROCEDURE, 990 MAINT UNIT						
0003	00001.000	EA		0938176-0002	CHASSIS ASSY, 230V						
0004	00001.000	EA		0946712-0001	FRONT PANEL ASSY-990 MAINT UNIT						
0005	00001.000	EA		0946727-0001	CABLE ASSY-72 INCH						
0006	00001.000	EA		0946765-0001	960 MAINTENANCE EXTENDER CARD						
0007	00001.000	EA		0947986-0003	SP, 960 MDU DIAGNOSTICS KIT-DXS960						
0008	REF	EA		0948017-9901	PD, 914A TROUBLE SHOOTING GUIDE-DXS10/960						
0009	00001.000	EA		0937782-0001	SP, 990 DIAGNOSTICS KIT (CC01)-990						
0010	REF	EA		0946706-9901	PACKING INSTRUCTION, 990 MAINTENANCE UNIT						

DESIGNER	DATE	CED. DRAFTER	DATE	DESIGN ENGINEER	DATE	TITLE 960/990 MAINTENANCE UNIT, 230V					
APP. MFG.	DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
						PART NUMBER		REV		H	
						LM0946710-0004				H	



- NOTES**
- REMOVE # 6-32 SCREWS RETAINING PCB & REPLACE WITH ITEM 29
 - INSTALL ITEM 10 PRIOR TO ASSEMBLING ITEMS 5 & 8
 - REMOVE CAPTIVE MITE SCREWS FROM ITEM 2
 - MATCH TRIANGLE ON ITEM 12 TO PIN NO 1 OF CONNECTOR ON ITEM 9 AND 10
 - S1, S2 AND S3 ARE PART OF ITEM 10 ASSY. MOUNTING HARDWARE IS ATTACHED TO ITEM 10
 - LEAVE TRANSPORT AND CONNECTOR MOUNTING HARDWARE LOOSE UNTIL ITEM 1 HAS BEEN ATTACHED. THEN ADJUST TRANSPORT IN MOUNTING SLOTS SO THAT DOOR DOES NOT BIND AT TOP OR BOTTOM WHEN OPENED
 - NO SYSTEM TEST REQUIRED
 - AFFIX LABEL (ITEM 52) TO CENTER OF INSIDE TOP COVER OF CHASSIS CASE. DATA TO BE ENTERED BY MANUFACTURING
 - COAT OUTSIDE THREADS OF ITEM 29 PER PROCESS 2
 - 2 ASSY ONLY. REMOVE 115V PLUG BY CUTTING THE POWER CORD NEAR PLUG OF ITEM 34. REMOVE OUTER COVER AND WIRE INSULATION AS SHOWN IN VIEW G. INSTALL 250V PLUG (ITEM 61) INSURING THE GREEN WIRE IS CONNECTED AS SHOWN IN VIEW G.
 - SECURE CABLE ASSEMBLIES (ITEMS 9 & 10) USING ITEM 57.
 - AFFIX LABEL (ITEM 60) APPROX. 1/2 INCH BELOW AND CENTERED WITH RESPECT TO ITEM 52.

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN 411953 (2) D Rev 11 REVISED DWG PER EXTENSIVE ENGR CHANGE 2 ADDED SH 2	7-13-76	J.R.M.
B		1. 40, 2. 71, 3. 71, 4. 11, 5. 11, 6. 11, 7. 11, 8. 11, 9. 11, 10. 11, 11. 11, 12. 11, 13. 11, 14. 11, 15. 11, 16. 11, 17. 11, 18. 11, 19. 11, 20. 11, 21. 11, 22. 11, 23. 11, 24. 11, 25. 11, 26. 11, 27. 11, 28. 11, 29. 11, 30. 11, 31. 11, 32. 11, 33. 11, 34. 11, 35. 11, 36. 11, 37. 11, 38. 11, 39. 11, 40. 11, 41. 11, 42. 11, 43. 11, 44. 11, 45. 11, 46. 11, 47. 11, 48. 11, 49. 11, 50. 11, 51. 11, 52. 11, 53. 11, 54. 11, 55. 11, 56. 11, 57. 11, 58. 11, 59. 11, 60. 11, 61. 11, 62. 11, 63. 11, 64. 11, 65. 11, 66. 11, 67. 11, 68. 11, 69. 11, 70. 11, 71. 11, 72. 11, 73. 11, 74. 11, 75. 11, 76. 11, 77. 11, 78. 11, 79. 11, 80. 11, 81. 11, 82. 11, 83. 11, 84. 11, 85. 11, 86. 11, 87. 11, 88. 11, 89. 11, 90. 11, 91. 11, 92. 11, 93. 11, 94. 11, 95. 11, 96. 11, 97. 11, 98. 11, 99. 11, 100. 11	7/21/76	Rubyn
C		CN 415335 (2) D Rev 11 C/M ITEM 35 WAS #54990-0025	7/15/76	Rubyn
D		CN 415347 (2) D Rev 11 ADDED ITEM 52 + NOTES 7 & 8	9/13/76	Rubyn
E		CN 414034 (2) D Rev 11 L.M. DELETED ITEM 19 (2) QTY ITEM 18 WAS 16	9/15/76	Rubyn
F		CN 417395 (2) D Rev 11 REVISED BALLBOONS (2) ADDED NOTE 9 AND PROCESS 2 (3) L.M. ADDED ITEMS 53 THRU 56 (4) QTY ITEM 17 WAS 6 AND QTY ITEM 45 WAS 2	9-30-76	J.P.M.
G		CN 422609 (2) D Rev 11 REVISED PER EXTENSIVE ENGR CHANGES	11-29-76	J.P.M.

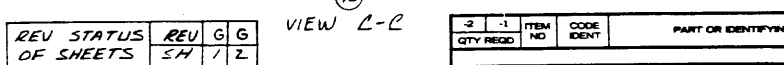
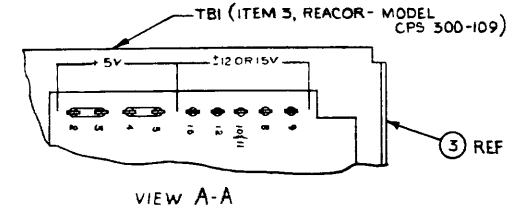
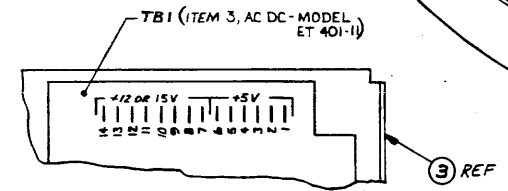
PART NUMBER	DESCRIPTION
946711-0002	CHASSIS ASSY-990 MAINTENANCE UNIT, 230V
946711-0001	CHASSIS ASSY-990 MAINTENANCE UNIT, 115V

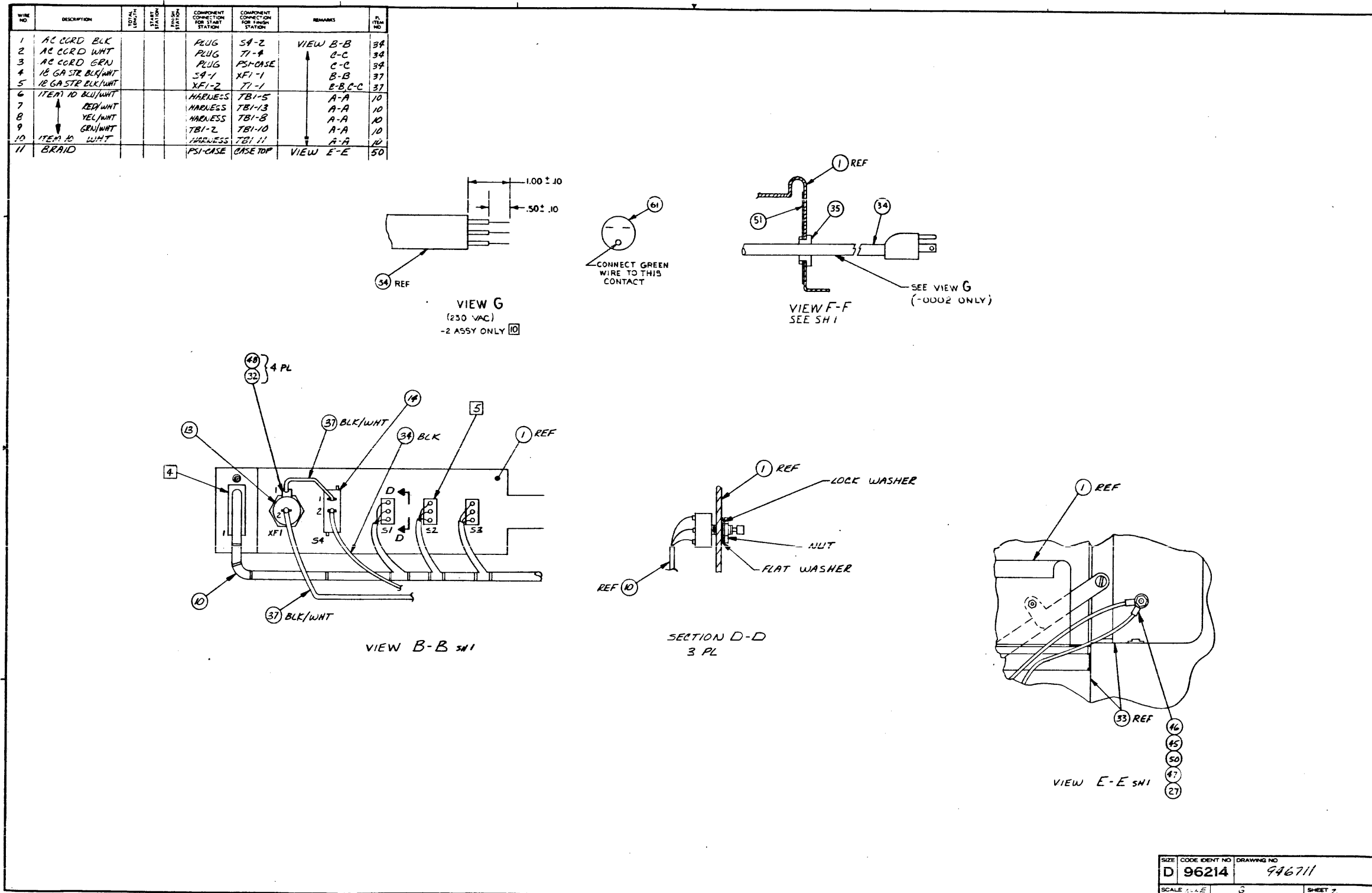
REV	STATUS	REV	G	G
2		SH	1	Z

PROCESSES:
 1. SOLDER PER F-127, METHOD 1
 2. SEAL PER F-650, METHOD 1, USING ITEMS 54 AND 53

UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	
CONCENTRICITY MACHINED DIAMETERS .010 FIR	
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	
HOLE TOLERANCE	
.013 +.004	-.001
.125 +.001	-.001
.501 +.008	-.001
1.250 +.012	-.001
2.501 +.016	-.001
5.001 +.020	-.001
12.501 +.024	-.001
25.001 +.028	-.001
50.001 +.032	-.001
125.001 +.036	-.001
250.001 +.040	-.001
500.001 +.044	-.001
1000.001 +.048	-.001

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION
2	1				
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TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946711-0001		REV G	
DATE 12/21/76									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0946715-0001	CHASSIS, PLASTIC				
0002	0001.000	EA		0986352-0001	MAGNETIC TAPE TRANSPORT ASSY				
0003	0001.000	EA		0946768-0001	POWER SUPPLY				
0004	0001.000	EA		0946729-0001	BRACKET,CASSETTE MTG				
0005	0001.000	EA		0946717-0001	BRACKET,MTG				
0006	0001.000	EA		0946731-0001	SUPPORT,ZEE				
0007	0001.000	EA		0946728-0001	BRACKET,PWB SUPT				
0008	0001.000	EA		0946730-0001	BRACKET,CONN MTG				
0009	0001.000	EA		0946719-0001	CABLE ASSY.- CPU TO CONTROLLER, 990 M/U				
0010	0001.000	EA		0946721-0001	CABLE ASSY.- INTERNAL WIRING, 990 M/U				
0011	0001.000	EA		0946675-0001	MAINTAINCE UNIT CONTROLLER ASSY				
0011A				A1					
0012	00002.000	EA		0972747-0001	HEADER,RIGHT ANGLE,WIREWRAP 1 AMP	MM	-	3428-3005	
0013	00001.000	EA		0232092-0003	HOLDER FUSE HKP-HH	BUS	-	HKP-HH	
0013A				XF1					
0014	00001.000	EA		0772812-0001	SWITCH SPST BLACK	CEI	-	TA201-T88	
0014A				S4					
0015	00004.000	EA		0411115-0024	NUT,PLAIN 2-56 UNC-2B HEX CRES	QPL	-	MS35649-224	
0016	00004.000	EA		0972989-0007	SCREW # 2-56 X .500 PAN HEAD SCREW,BLK				
0017	00002.000	EA		0972988-0017	SCREW 4-40 X .500 PAN HEAD CRES				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS ASSY-MAINTENANCE UNIT, 115V			
APPRO. ENG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
						7506			LM0946711-0001

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946711-0001		REV G	
DATE 12/21/76									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0018	00019.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES				
0020	00013.000	EA		0972987-0010	SCREW # 10-32 X .500 PAN HEAD,SLOTTED				
0021	00008.000	EA		0416622-0020	WASHER,FLAT #3 .016 THICK	QPL	-	AN960C3L	
0022	00008.000	EA		0416622-0011	WASHER #4 FLAT	QPL	-	AN960C4L	
0023	00004.000	EA		0410950-0106	WASHER #6 .156ID X.375OD .049 THK FLAT				
0024	00013.000	EA		0410950-0010	WASHER #10 .219 ID X.438OD .049 THK				
0025	00004.000	EA		0410898-0002	WASHER #2 LOCK-INTERNAL TOOTH .049 DIA				
0026	00006.000	EA		0411101-0057	LOCKWASHER # 4 EXTERNAL TOOTH CRES	QPL	-	MS35335-57	
0027	00004.000	EA		0410904-0006	WASHER #6 LOCK,EXTERNAL TOOTH BLACK				
0028	00013.000	EA		0410901-0010	WASHER .202ID .334OD .047THK SPLIT LK				
0029	00007.000	EA		0532348-0601	STUD, EXTENSION-CRES #6-32 X .375				
0030	00006.000	EA		0411115-0044	NUT,4-40 HEXAGON CRES STEEL	MS	-	35649-244	
0031	00002.000	EA		0972171-0055	TERMINAL,PUSH-ON				
0032	00004.000	EA		0972171-0048	TERMINAL,PUSH-ON,250				
0033	00001.000	EA		0946713-0001	CASE ASSY				
0034	00001.000	EA		0088035-0005	CORN-GROUND PRONG PLUG POWER SERVICE	BEL	-	17407	
0035	00001.000	EA		0454990-0007	RUSHING,STR-RLF,CBL,A DIA .750				
0036	00001.000	EA		0416434-0153	FUSE 1.5 A 250V 3AG	LIT	-	31201.5	
0036A				F1					
0037	00002.000	FT		0538347-5099	WIRE HOOKUP B-18 AWG 19 STR BK/WH	JUD	-	HH0203	
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS ASSY-MAINTENANCE UNIT, 115V			
APPRO. ENG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
									LM0946711-0001

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946711-0001		REV G	
DATE 12/21/76									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0040	00006.000	EA		0972989-0015	SCREW 4-40 X .375 PAN HEAD SCREW,BLK,DX.	MS	-	15795-8048	RLK
0041	00006.000	EA		0410950-0104	WASHER,#4 ID.125.312OD.032THK FLAT				
0042	00006.000	EA		0410898-0004	WASHER #4 LOCK-INT TOOTH .115ID				
0043	00017.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL	-	MS35333-71	
0044	00009.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL	-	MS15795-806	
0045	00003.000	EA		0084813-0006	SPACER-#6 SCREW 1/4 ODX3/8 LG AL01+00+03				
0046	00003.000	EA		0232354-0001	LUG #5/#6 PING TONG VINYL INS AWG 22-16	AMP	-	318R2	
0047	00003.000	EA		0411115-0064	NUT,PLAIN 6-32 UNC-2B HEX CRES	QPL	-	MS35649-264	
0048	00000.500	FT		0417177-0008	SLEEVING,.5 DIA X.025 THK POLYOLEFIN				
0049	00001.200	FT		0411634-0810	SLEEVF,PVC, .085 DIA, CLEAR	QPL	-	MIL-1-631	
0050	00001.200	EA		0416445-0006	WIPE BRAID ROUND .063 DIA				
0051	00001.000	EA		0948972-0001	PLATE,STRAIN RELIEF				
0052	00001.300	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO				
0053	AP	QT		0415804-0005	SEALING COMPOUND,ANAEROBIC-BLUE GRADE C				
0054	00002.000	EA		0972988-0018	SCREW 4-40 X .625 PAN HEAD CRES				
0055	00002.000	EA		0972988-0020	SCREW 4-40 X .875 PAN HEAD CRES				
0056	AP	TU		0415804-0011	SURFACE PRIMER,COMPOUND GRADE T YELLOW				
0057	00004.000	EA		0418212-0004	STRAP,TIENDOWN,ADJUSTABLE,PLASTIC		-	MS3367-1-3	
0058	00001.000	EA		0054967-0003	CLAMP,LOOP .18DIA X .40L X .38W NYLON	RUR	-	HP-3N	
0059	00001.000	EA		0972989-0030	SCREW #6-32 X 1/2 PAN HEAD				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS ASSY-MAINTENANCE UNIT, 115V			
APPRO. ENG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
									LM0946711-0001

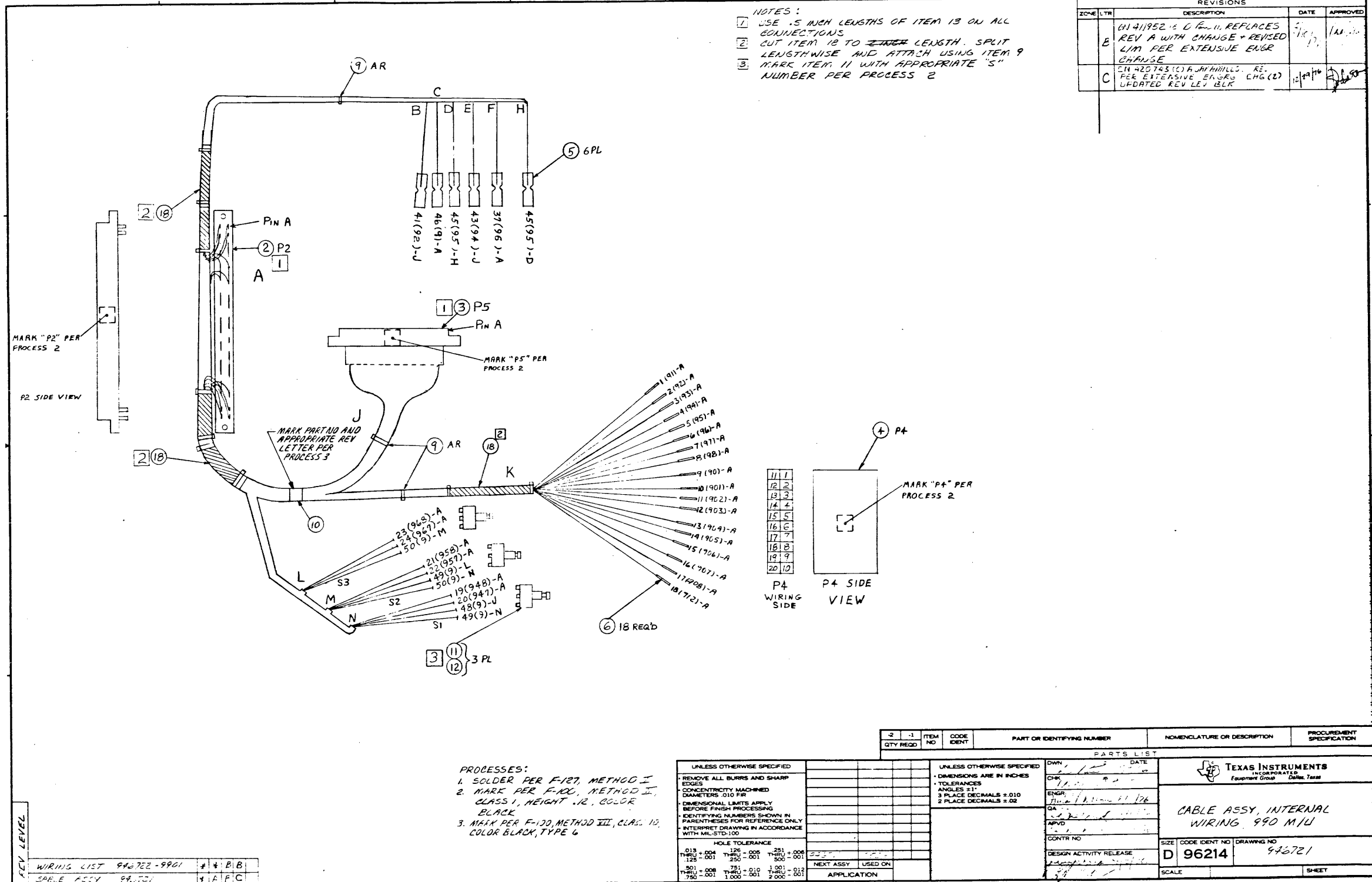
TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946711-0001		REV G	
DATE 12/21/76									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0060	00001.000	EA		0946637-0010	LABEL, POWER 115V 47/63 HZ 1.5A				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
APPRO. ENG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
									LM

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946711-0002		REV G	
DATE 12/21/76									
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		0946715-0001	CHASSIS, PLASTIC				
0002	00001.000	EA		0986352-0001	MAGNETIC TAPE TRANSPORT ASSY				
0003	00001.000	EA		0946768-0001	POWER SUPPLY				
0003A					PS1				
0004	00001.000	EA		0946729-0001	BRACKET, CASSETTE MTG				
0005	00001.000	EA		0946717-0001	BRACKET, MTG				
0006	00001.000	EA		0946731-0001	SUPPORT, ZFF				
0007	00001.000	EA		0946728-0001	BRACKET, PWR SUPT				
0008	00001.000	EA		0946730-0001	BRACKET, CONN MTG				
0009	00001.000	EA		0946719-0001	CABLE ASSY.- CPU TO CONTROLLER, 990 M/U				
0010	00001.000	EA		0946721-0001	CABLE ASSY.- INTERNAL WIRING, 990 M/U				
0011	00001.000	FA		0946755-0001	MAINTAINANCE UNIT CONTROLLER ASSY				
0011A					A1				
0012	00002.000	EA		0972747-0001	HOLDER, RIGHT ANGLE, WIREWRAP 1 AMP	HHH - 3428-3005			
0013	00001.000	EA		0232092-0003	HOLDER FUSE HKP-HH	BUS -HKP-HH			
0013A					XF1				
0014	00001.000	EA		0772812-0001	SWITCH SPST BLACK	CFI -TA201-T88			
0014A					S4				
0015	00004.000	EA		0411115-0024	NUT, PLAIN 2-56 UNC-2B HEX CRFS	QPL - MS35649-224			
0016	00004.000	EA		0972989-0007	SCREW # 2-56 X .500 PAN HEAD SCREW, BLK				
DRAFTSMAN: DATE: CKD: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS ASSY-MAINTENANCE UNIT, 230V									
APPD: MFG: DATE: APPD: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM0946711-0002 REV: G									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946711-0002		REV G	
DATE 12/21/76									
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0017	00002.000	EA		0972988-0017	SCREW 4-40 X .500 PAN HEAD CRFS				
0018	00019.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRFS				
0020	00013.000	EA		0972987-0010	SCREW # 10-32 X .500 PAN HEAD, SLOTTED				
0021	00008.000	EA		0416622-0020	WASHER, FLAT #3 .016 THICK	QPL - AN960C3L			
0022	00008.000	EA		0416622-0011	WASHER #4 FLAT	QPL - AN960C4L			
0023	00004.000	EA		0410950-0106	WASHER #6 .156ID X.37500 .049 THK FLAT				
0024	00013.000	EA		0410950-0010	WASHER #10 .219 ID X.43800 .049 THK				
0025	00004.000	EA		0410898-0007	WASHER #2 LOCK-INTERNAL TOOTH .089 DIA				
0026	00006.000	EA		0411101-0057	LOCKWASHER # 4 EXTERNAL TOOTH CRFS	QPL - MS35335-57			
0027	00004.000	EA		0410904-0006	WASHER #6 LOCK, EXTERNAL TOOTH BLACK				
0028	00013.000	EA		0410901-0010	WASHER .202ID .33400 .047THK SPLIT LK				
0029	00007.000	EA		0532348-0601	STUD, EXTENSION-CRFS #6-32 X .375				
0030	00006.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRFS STEEL	MS - 35649-244			
0031	00002.000	EA		0972171-0055	TERMINAL, PUSH-ON				
0032	00004.000	EA		0972171-0048	TERMINAL, PUSH-ON, 250				
0033	00001.000	EA		0946713-0001	CASE ASSY				
0034	00001.000	EA		0088035-0005	CORD-GROUND PRONG PLUG POWER SERVICE	REL - 17407			
0035	00001.000	EA		0454990-0007	BUSHING, STR-PLF, CBL, A DIA .750				
0036	00001.000	EA		0416434-0103	FUSE 1.0 A 250V 3AG	LIT - 312001			
0036A					F1				
DRAFTSMAN: DATE: CKD: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS ASSY-MAINTENANCE UNIT, 230V									
APPD: MFG: DATE: APPD: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM0946711-0002 REV: G									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946711-0002		REV G	
DATE 12/21/76									
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0037	AP	FT		0538347-5099	WIRE HOOKUP P-18 AWG 19 STR BK/WH	JUD - HH0203			
0040	00006.000	FA		0972989-0015	SCREW 4-40 X .375 PAN HEAD SCREW, BLK, OX				
0041	00006.000	FA		0410950-0104	WASHER #4 ID.125.31200.032THK FLAT	MS - 15795-8048 PL			
0042	00006.000	EA		0413898-0004	WASHER #4 LOCK-INT TOOTH .115ID				
0043	00017.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRFS	QPL - MS35333-71			
0044	00009.000	EA		0411027-0006	WASHER .156 X .375 X .049 FLAT CRFS	QPL - MS15795-806			
0045	00003.000	EA		0084813-0006	SPACER-#6 SCREW 1/4 ODX 3/8 LG AL01+00+03				
0046	00003.000	EA		0232354-0001	LINK #5/#6 RING TONG VINYL INS AWG 22-16	AMP -31882			
0047	00003.000	EA		0411115-0064	NUT, PLAIN 6-32 UNC-2B HEX CRFS	QPL - MS35649-264			
0048	00000.500	FT		0417177-0008	SLFEEVING, .5 DIA X.025 THK POLYOLEFIN				
0049	00001.200	FT		0411634-0810	SLFEEV, PVC, .085 DIA, CLEAR	QPL - MIL-1-631			
0050	00001.200	EA		0416445-0006	WIRE BRAID ROUND .063 DIA				
0051	00001.000	EA		0948972-0001	PLATE, STRAIN RELIEF				
0052	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO				
0053	AF	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C				
0054	00002.000	EA		0972988-0018	SCREW 4-40 X .625 PAN HEAD CRFS				
0055	00002.000	EA		0972988-0020	SCREW 4-40 X .875 PAN HEAD CRFS				
0056	AP	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW				
0057	00004.000	FA		0418212-0004	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	- MS3367-1-3			
0058	00001.000	EA		0054967-0003	CLAMP, LOOP .180IA X .40L X .3RW NYLON	BUP - HP-3N			
DRAFTSMAN: DATE: CKD: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS ASSY-MAINTENANCE UNIT, 230V									
APPD: MFG: DATE: APPD: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM0946711-0002 REV: G									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946711-0002		REV G	
DATE 12/21/76									
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0059	00001.000	EA		0972989-0030	SCREW #6-32 X 1/2 PAN HEAD				
0060	00001.000	EA		0446637-0011	LABEL, POWER 230V 47/63 HZ 1.0A				
0061	00001.000	EA		0972529-0002	CONNECTOR, PLUG-3 WIRE GRND-250 V 15A	HUL - 5666C			
DRAFTSMAN: DATE: CKD: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS ASSY-MAINTENANCE UNIT, 230V									
APPD: MFG: DATE: APPD: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM0946711-0002 REV: G									



NOTES:
 1. USE .5 INCH LENGTHS OF ITEM 13 ON ALL CONNECTIONS
 2. CUT ITEM 13 TO ~~THE~~ LENGTH. SPLIT LENGTHWISE AND ATTACH USING ITEM 9
 3. MARK ITEM 11 WITH APPROPRIATE "S" NUMBER PER PROCESS 2

ZONE	LTR	DESCRIPTION	DATE	APPROVED
	E	CH 411952 IS O'G' 11, REPLACES REV A WITH CHANGE + REVISED LIM PER EXTENSIVE ENGR CHANGE	1/11/50	JAN 11 1950
	C	CH 420745 (C) A, J. J. HILL, REL. PER EXTENSIVE ENGRS CHG (C) UPDATED REV LET BLK	12/29/50	12/29/50

PROCESSES:
 1. SOLDER PER F-127, METHOD II
 2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .12, COLOR BLACK
 3. MARK PER F-100, METHOD III, CLASS 10, COLOR BLACK, TYPE 6

REV LEVEL	WIRING LIST	946722-9901	#	BIB
	CABLE ASSY	946721	1	AFC

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 FIR	DIMENSIONS ARE IN INCHES	TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	HOLE TOLERANCE	APPLY
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		013 THRU +.004	126 THRU -.005
		125 THRU -.001	250 THRU -.001
		501 THRU -.008	751 THRU -.010
		750 THRU -.001	1.000 THRU -.001
			2.000 THRU -.001

PARTS LIST		DATE	
CHK	DATE	ENGR	DATE
APVD	DATE	CONTR NO	DATE
DESIGN ACTIVITY RELEASE			
SIZE	CODE IDENT NO	DRAWING NO	
D	96214	946721	
SCALE		SHEET	

TEXAS INSTRUMENTS
 INCORPORATED
 Equipment Group Dallas, Texas

CABLE ASSY, INTERNAL WIRING 990 M/U

Internal Cable Assembly

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		LM 0946721-0001		REV
DATE 12/28/76								C
PRINT FROM ASSEMBLY	QUANTITY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER		
0001	REF	EA		0946722-9901	WIRE LIST, CARLE ASSY.- INTERNAL WIRING			
0002	00001.000	EA		0231447-0800	CONNECTOR PC 36 PIN	VIK -2VH-36/1CN-5		
0002A					P2			
0003	00001.000	EA		0772278-0002	CONNECTOR, DBL ROW 15/30	MSR -MC15D/2-2		
0003A					P5			
0004	00001.000	EA		0972847-0002	CONNECTOR HOUSING, PLASTIC, 20 COND., .100			
0004A					P4			
0005	00006.000	EA		0972171-0055	TERMINAL, PUSH-CN			
0006	00018.000	EA		0539380-0003	CONTACT 20-22AWG BERYLLIUM COPPER	AMP -85969-2		
0007	00002.000	FT		0538347-2999	WIRE HOOKUP B-24 AWG 19 STR WHITE	JUD - HH0112		
0008	00002.000	FT		0538347-5999	WIRE HOOKUP B-18 AWG 19 STR WHITE	JUD - HH0203		
0009	00035.000	EA		0418212-0004	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	- MS3367-1-3		
0010	00001.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL - MS3368-6-9		
0011	00003.000	EA		0235622-1000	SWITCH-PUSHBUTTON-WHITE	GCK -P8121		
0011A					S1 S2 S3			
0012	00003.000	EA		0972367-0001	CAP, PUSH BUTTON SWITCH, WHITE			
0013	00002.000	FT		0972146-0006	TUBING, HEAT SHRINKABLE .250 ID BLACK			
0014	00002.000	FT		0538347-5699	WIRE HOOKUP B-18 AWG 19 STR BL/WH	JUD - HH0203		
0015	00002.000	FT		0538347-5299	WIRE HOOKUP B-18 AWG 19 STR RD/WH	JUD - HH0203		
0016	00002.000	FT		0538347-5499	WIRE HOOKUP B-18 AWG 19 STR YL/WH	JUD - HH0203		
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
							7506	
							LM 0946721-0001	C

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 3 of		LM 0946721-0001		REV
DATE 12/28/76								C
PRINT FROM ASSEMBLY	QUANTITY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER		
0037	00002.000	FT		0538347-2489	WIRE HOOKUP B-24 AWG 19 STR YL/GR/WH	JUD - HH0112		
0038	00002.000	FT		0538347-2479	WIRE HOOKUP B-24 AWG 19 STR YL/VI/WH	JUD - HH0112		
0039	00002.000	FT		0538347-2589	WIRE HOOKUP B-24 AWG 19 STR GN/GR/WH	JUD - HH0112		
0040	00002.000	FT		0538347-2579	WIRE HOOKUP B-24 AWG 19 STR GN/VI/WH	JUD - HH0112		
0041	00002.000	FT		0538347-2689	WIRE HOOKUP B-24 AWG 19 STR BL/GR/WH	JUD - HH0112		
0042	00002.000	FT		0538347-2679	WIRE HOOKUP B-24 AWG 19 STR BL/VI/WH	JUD - HH0112		
0043	00002.000	FT		0538347-2139	WIRE HOOKUP B-24 AWG 19 STR BN/OR/WH	JUD - HH0112		
0044	00002.000	FT		0538347-2149	WIRE HOOKUP B-24 AWG 19 STR BN/YI/WH	JUD - HH0112		
0045	00002.000	FT		0538347-2159	WIRE HOOKUP B-24 AWG 19 STR BN/GN/WH	JUD - HH0112		
0046	00002.000	FT		0538347-2169	WIRE HOOKUP B-24 AWG 19 STR BN/BL/WH	JUD - HH0112		
0047	00002.000	FT		0538347-2189	WIRE HOOKUP B-24 AWG 19 STR BN/GR/WH	JUD - HH0112		
0048	00002.000	FT		0538347-2239	WIRE HOOKUP B-24 AWG 19 STR RD/OR/WH	JUD - HH0112		
0049	00002.000	FT		0538347-2249	WIRE HOOKUP B-24 AWG 19 STR RD/YL/WH	JUD - HH0112		
0050	00002.000	FT		0538347-2259	WIRE HOOKUP B-24 AWG 19 STR RD/GH/WH	JUD - HH0112		
0051	00002.000	FT		0538347-2269	WIRE HOOKUP B-24 AWG 19 STR RD/BL/WH	JUD - HH0112		
0052	00002.000	FT		0538347-2279	WIRE HOOKUP B-24 AWG 19 STR RD/VI/WH	JUD - HH0112		
0053	00002.000	FT		0538347-2289	WIRE HOOKUP B-24 AWG 19 STR RD/GP/WH	JUD - HH0112		
0054	00002.000	FT		0538347-2179	WIRE HOOKUP B-24 AWG 19 STR BN/VI/WH	JUD - HH0112		
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
							LM 0946721-0001	C

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 2 of		LM 0946721-0001		REV
DATE 12/28/76								C
PRINT FROM ASSEMBLY	QUANTITY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER		
0017	00000.500	FT		0538347-5599	WIRE HOOKUP B-18 AWG 19 STR GN/WH	JUD - HH0203		
0018	00001.000	FT		0411634-5000	SLEEVE, PVC, 1/2 DIA. BLACK	QPL - MIL-1-631		
0019	00002.000	FT		0538347-2199	WIRE HOOKUP B-24 AWG 19 STR BN/WH	JUD - HH0112		
0020	00002.000	FT		0538347-2299	WIRE HOOKUP B-24 AWG 19 STR RD/WH	JUD - HH0112		
0021	00002.000	FT		0538347-2399	WIRE HOOKUP B-24 AWG 19 STR OR/WH	JUD - HH0112		
0022	00002.000	FT		0538347-2499	WIRE HOOKUP B-24 AWG 19 STR YL/WH	JUD - HH0112		
0023	00002.000	FT		0538347-2599	WIRE HOOKUP B-24 AWG 19 STR GN/WH	JUD - HH0112		
0024	00002.000	FT		0538347-2699	WIRE HOOKUP B-24 AWG 19 STR BL/WH	JUD - HH0112		
0025	00002.000	FT		0538347-2799	WIRE HOOKUP B-24 AWG 19 STR VI/WH	JUD - HH0112		
0026	00002.000	FT		0538347-2899	WIRE HOOKUP B-24 AWG 19 STR GR/WH	JUD - HH0112		
0027	00002.000	FT		0538347-2099	WIRE HOOKUP B-24 AWG 19 STR BK/WH	JUD - HH0112		
0028	00002.000	FT		0538347-2019	WIRE HOOKUP B-24 AWG 19 STR BK/BN/WH	JUD - HH0112		
0029	00002.000	FT		0538347-2029	WIRE HOOKUP B-24 AWG 19 STR BK/RD/WH	JUD - HH0112		
0030	00002.000	FT		0538347-2039	WIRE HOOKUP B-24 AWG 19 STR BK/OR/WH	JUD - HH0112		
0031	00002.000	FT		0538347-2049	WIRE HOOKUP B-24 AWG 19 STR BK/YL/WH	JUD - HH0112		
0032	00002.000	FT		0538347-2059	WIRE HOOKUP B-24 AWG 19 STR BL/GN/WH	JUD - HH0112		
0033	00002.000	FT		0538347-2069	WIRE HOOKUP B-24 AWG 19 STR BK/BL/WH	JUD - HH0112		
0034	00002.000	FT		0538347-2079	WIRE HOOKUP B-24 AWG 19 STR BK/VI/WH	JUD - HH0112		
0035	00002.000	FT		0538347-2089	WIRE HOOKUP B-24 AWG 19 STR BK/GR/WH	JUD - HH0112		
0036	00002.000	FT		0538347-2129	WIRE HOOKUP B-24 AWG 19 STR BN/RD/WH	JUD - HH0112		
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
							LM 0946721-0001	C

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
946721	7506	A	CN411951 (C) D. Burkland	7-16-76	J. R. Rody
		B	CN408779 (C) D. Burkland	7-16-76	J. R. Rody

REV	SHEET	REV	B	B	B	B

REV STATUS OF SHEETS	SHEET	1	2	3	4

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES
 ANGLES ±1°
 3 PLACE DECIMAL ±.010
 2 PLACE DECIMAL ±.02

IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY

INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100

ENGR L. HENRY 3 3/27/76
 D. Burkland 3/16/76
 J. R. Rody 3/18/76
 J. R. Rody 3/18/76
 J. R. Rody 3/18/76

CONTR NO

DESIGN ACTIVITY RELEASE

SCALE NONE B SHEET 1 OF 4

TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas

WIRING LIST, 990 MAINTENANCE UNIT INTERNAL WIRING

SIZE CODE IDENT NO DRAWING NO
 A 96214 946722

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
1	NO 24 WHT/BRN	AR			P4-1	P2-7	GND	19
2	WHT/RED				-11	-S	STOBECLKA-	20
3	WHT/ORN				-2	-8	GND	21
4	WHT/YEL				-12	-J	GND	22
5	WHT/GRN				-8	-9	RESTARTFP-	23
6	WHT/BLU				-13	-K	FAULTLEDA-	24
7	WHT/V10				-14	-10	FPCRUBITIN	25
8	WHT/GRN				-5	-L	FPVCC	26
9	WHT/BLK				-15	-11	FPVCC	27
10	WHT/BLK/BRN				-6	-M	IDLELEDA-	28
11	WHT/BLK/RED				-16	-12	RUNLEDA-	29
12	WHT/BLK/ORN				-7	-N	POWERLEDA-	30
13	WHT/BLK/YEL				-17	-13	MODSELA-	31
14	WHT/BLK/GRN				-8	-P	CRUBITOUTA	32
15	WHT/BLK/BLU				-18	-14	CRUBIT15A	33
16	WHT/BLK/V10				-19	-R	CRUBIT14A	34
17	WHT/BLK/GRN				-10	-15	CRUBIT12A	35
18	WHT/BRN/RED				P4-20	-16	CRUBIT13A	36
19	WHT/YEL/GRN				S1-NC	-H	RESETPB	37
20	NO 24 WHT/YEL/V10	AR			S1-NO	P2-B	RESETPB-	38

SIZE CODE IDENT NO DRAWING NO
 A 96214 946722

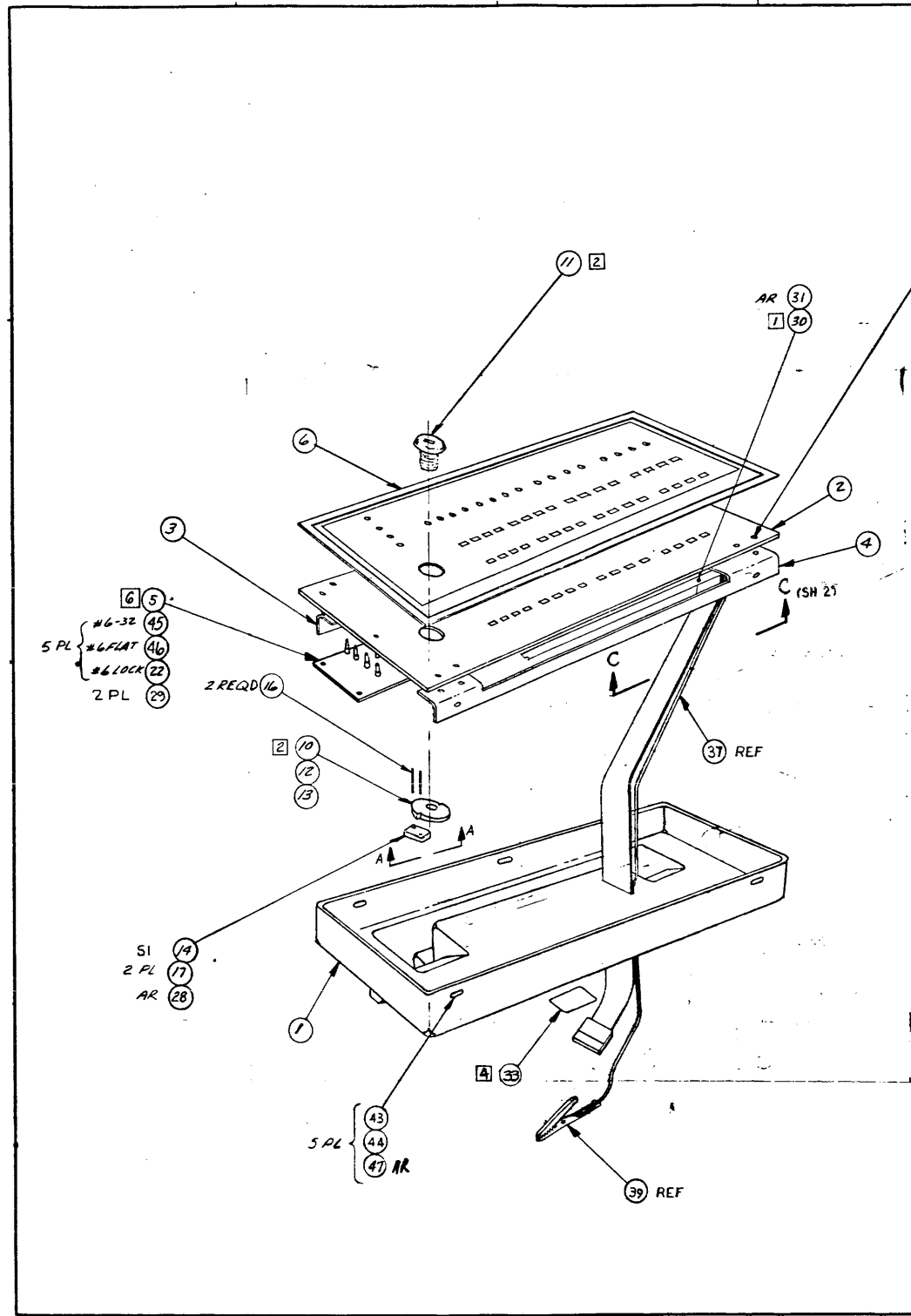
SCALE REV B SHEET 2

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
21	NO 24 WHT /GRN/GRN	AR			S2-NC	P2-C	REW INDPB	39
22	WHT/GRN/VIO				S2-NO	-D	REW INDPB -	40
23	WHT/BLU/GRN				S3-NC	-E	STARTCAS	41
24	WHT/BLU/VIO				S3-NO	-F	STARTCAS -	42
25	WHT/BRN/ORN				P5-2	-22	FWD-	43
26	WHT/BRN/YEL				-3	-T	FAST-	44
27	WHT/BRN/GRN				-4	-17	C INPLACE	45
28	WHT/BRN/BLU				-5	-U	BOT	46
29	WHT/BRN/GRN				-7	-18	ROTB-	47
30	WHT/RED/ORN				-9	-V	TRFCLKA	48
31	WHT/RED/YEL				-B	-19	REV-	49
32	WHT/RED/GRN				-C	-W	WRITE-	50
33	WHT/RED/BLU				-D	-20	EOT	51
34	WHT/RED/VIO				-F	-X	RDTA	52
35	WHT/RED/GRN				-H	-21	TACH	53
36	NO 24 WHT /BRN/VIO				P5-6	P2-Y	WDATA	54
37	NO 18 WHT /BLU				P2-Z	TB1-5	+5 VOLTS	14
38					P2-2	P2-35		14
39					P2-35	P5-R		14
40	NO 18 WHT/BLU	AR			P5-R	P5-14	+5 VOLTS	14

SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	946722
SCALE	REV	SHEET
	B	3

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
41	NO 18 WHT/RED	AR			P5-P	TB1-13	+12 VOLTS	15
42	NO 18 WHT/RED				P5-P	P5-13	+12 VOLTS	15
43	NO 18 WHT/YEL				P5-N	TB1-8	-12 VOLTS	16
44	NO 18 WHT/YEL				P5-N	P5-12	-12 VOLTS	16
45	NO 18 WHT/GRN				TB1-2	TB1-10	GND	17
46	NO 18 WHT				PZ-A	TB1-11		8
47	NO 18 WHT				P2-A	P2-LCR		8
48	NO 24 WHT				TB1-11	S1-C		7
49	NO 24 WHT				S1-C	S2-C		7
50	NO 24 WHT				S2-C	S3-C		7
51	NO 18 WHT				P2-LCR	P5-S		8
52	NO 18 WHT				P5-S	P5-15		8
53	NO 18 WHT				P5-15	P5-1		8
54	NO 18 WHT	AR			P5-1	P5-A	GND	8

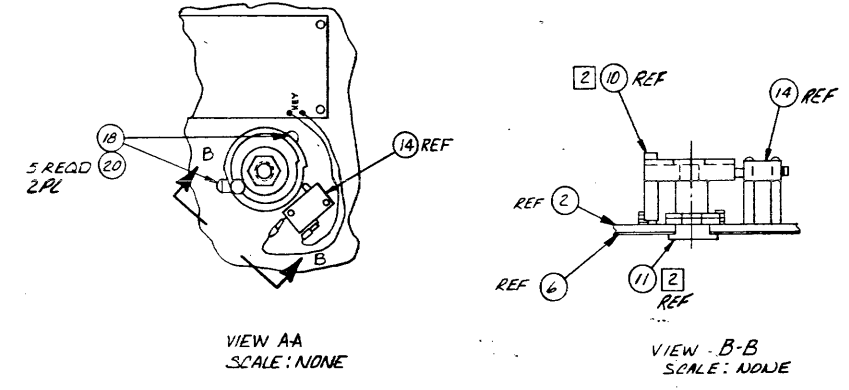
SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	946722
SCALE	REV	SHEET
	B	4



- NOTES:
- 1 CUT ITEM 30 TO 10.5 INCHES IN LENGTH AND ATTACH TO ITEM 4 ALONG SIDE USING ITEM 31
 - 2 IF ITEM 11 HAS SQUARE SHAFT, BREAK TABS ON INSIDE OF ITEM 10 TO FIT
 - 3 INSTALL ITEM 35 USING ITEMS 36 AND 40
 - 4 AFFIX LABEL (ITEM 33) TO BOTTOM CENTER OF BASE. DATA TO BE ENTERED BY MANUFACTURING.
 - 5 ATTACH ITEM 42 TO ITEM 2 BETWEEN THE LEDS AND ITEM 34 USING ITEM 31
 - 6 ITEM 5 MUST BE REV H OR LATER

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	CN 426844 (1) P/N 514444 (1) ITEM 5 WAS 945025-001	5-12-76	J. R. P.
	B	CN 41985 (1) P/N 111111 (1) REVISED L/M FACTORIAL PER EXTENSIVE ENGR CHANGES	2/9/76	J. R. P.
	C	CN 41953 (1) P/N 111111 (1) ITEM 30 WAS 946986-0001	5/21/76	J. R. P.
	D	CN 41742 (1) P/N 111111 (1) NOTE 1 WAS ... 8.5 INCHES ... (2) ITEM 3 DESC WAS ANGLE FRONT, ITEM 4 WAS ANGLE REAR, ITEM 17 WAS 972988-0009 ITEM 18 WAS 972988-0010, ITEM 14 WAS 972925-0010 & ITEM 19 QTY WAS 4	9-30-76	J. R. P.
B-5	E	CN 422687 (1) P/N 111111 (1) DELETED ITEM 7 ON L/M (2) FID BALLOON 5 WAS 7.4 PLACES	12-11-76	J. R. P.
	F	CN 424380 (B) P/N 111111 (1) ADDED SH 2 (2) REVISED PER EXTENSIVE ENGR CHANGES	8-16-77	J. R. P.
	G	CN 420036 (B) P/N 111111 (1) ADDED L/M IT'S 41 & 42 (2) QTY OF IT. 30 WAS 2 (3) NOTE 5 WAS * CUT ITEM 30 TO 10.5 INCHES IN LENGTH AND ATTACH TO ITEM 2 ...	10-13-77	J. R. P.
	H	CN 425069 (B) P/N 111111 (1) ADDED NOTE 5	1-13-78	J. R. P.
A-7	J	CN 429934 (C) P/N 111111 (1) CHANGED CALLOUT FROM: ITEMS 25, 26 & 27, 5 PL TO: ITEMS 43 & 44, 5 PL SH 2 (3) REVISED VIEW C-C TO SHOW WIRE COMING FROM THE TOP SCREW & ADDED VIEW E-E VIEWING PLANE LINES (A) ADDED VIEW E-E (5) CORRECTED VIEW D-D (6) ON L/M: DELETED ITEMS 25, 26 & 27; P/N OF ITEM 16 WAS A16925-0405; ADDED ITEMS 43 & 44	4-25-78	J. R. P.

REV'S CONT ON SH 2



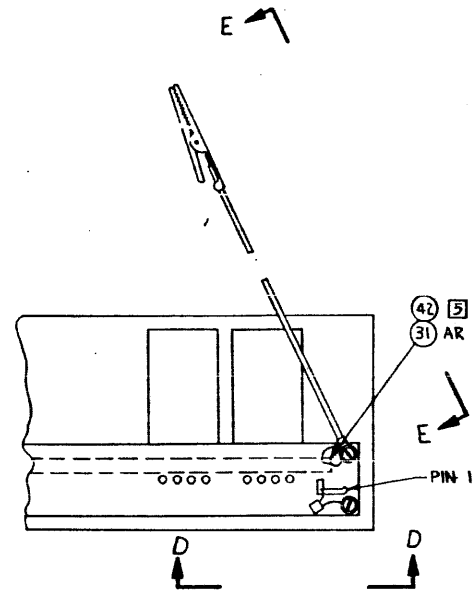
REV STATUS	REV	M	M
OF SHEETS	1	2	

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

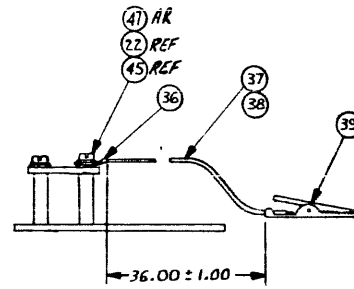
UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 FIR	DIMENSIONS ARE IN INCHES	TOLERANCES ANGLES ±1°
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ± 0.10	2 PLACE DECIMALS ± 0.02
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			

DATE	BY	CHKD	DATE
3/18/76	J. R. P.	J. R. P.	3/18/76
3/18/76	J. R. P.	J. R. P.	3/18/76
3/18/76	J. R. P.	J. R. P.	3/18/76

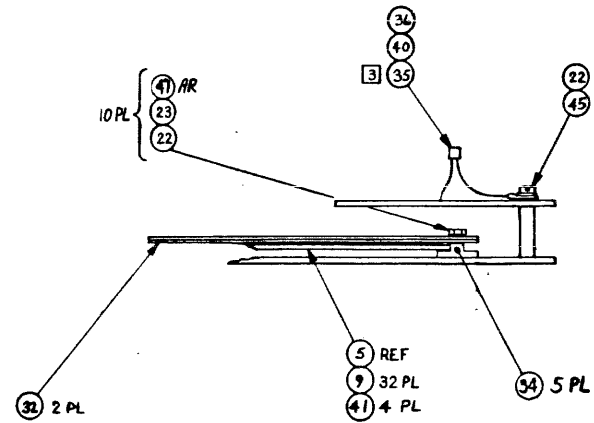
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946712



VIEW C-C
SCALE: NONE
(SH 1)



VIEW E-E
ROTATED 115° CW

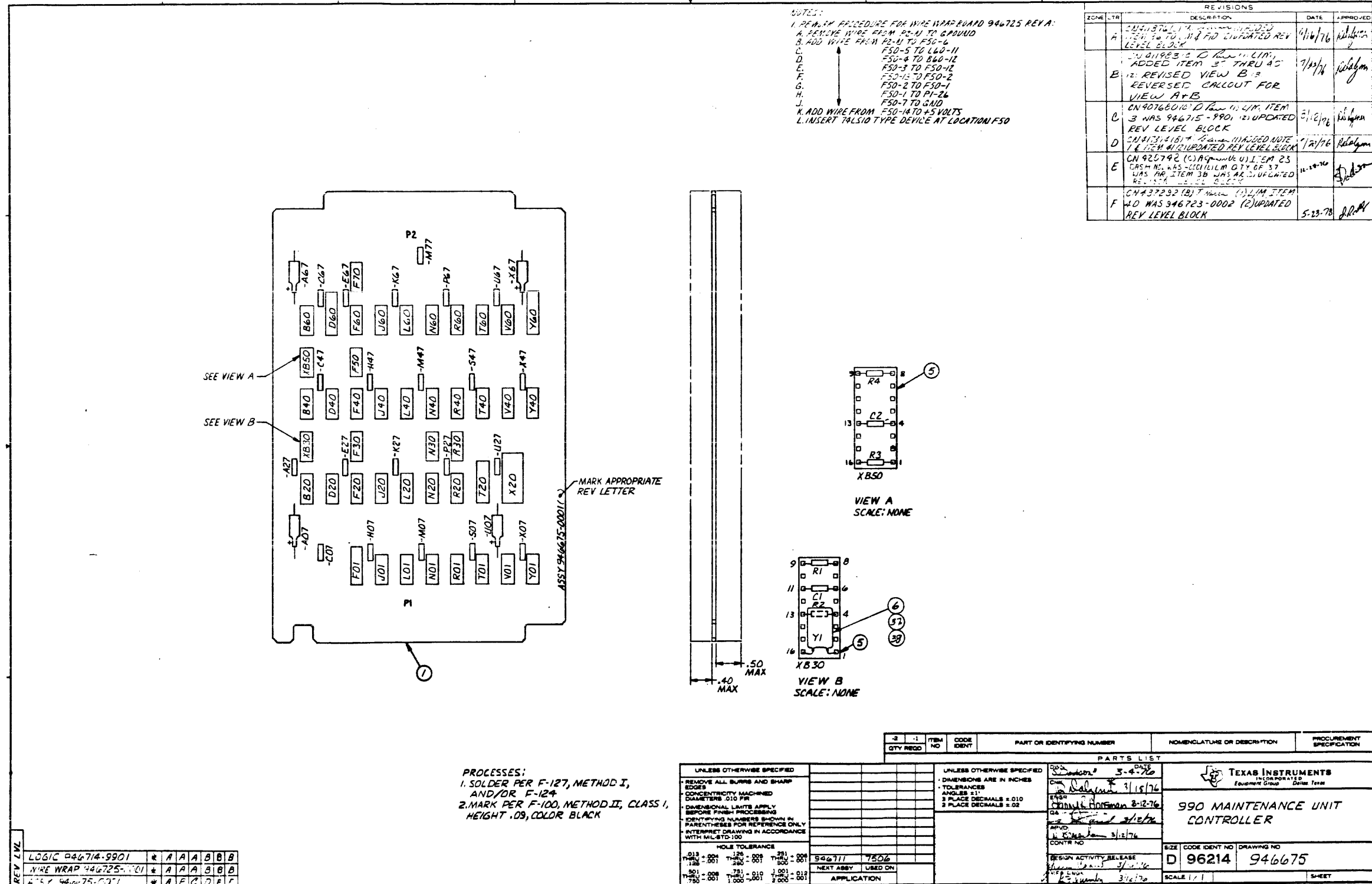


VIEW D-D
SCALE: NONE

REVISIONS			
ZONE LTR	DESCRIPTION	DATE	APPROVED
K	CH 42-011(C) C.P. 1.00 ON FID ENC-B ITEM 45 HAS 18, EN D-5 ITEM 24 QTY HAS 8 PL, EN B-3 DELETED APPROX 1.00 FROM ITEM 18, EN B-1 MARKED ITEMS 11, 14, 16 REF. ENC-B ITEM 46 WAS 20 (2) NOTE 3 WAS... BOTTOM OF ITEM 10 WAS ITEM 31. 3. VIEW E-E ITEM 45 HAS 18 REF ITEM 45 22.4 VIEW D-D ITEMS WAS 18 (5) QTY. ITEM 18 QTY WAS 2. ITEM 20 QTY HAS 36. ITEM 24 QTY HAS 8. ITEM 31 QTY HAS 10.0 ADDED ITEMS 45 & 46.	8-31-78	E. King
L	CH 42-9943 (C) PAPER (1) ADDED ITEM 47 TO LM 4 FID	8-31-78	E. King
M	CH 42-1257 (D) PAPER (1) LM ITEM 30 D/N WAS 966486-0001	8-31-78	J.R. P.

TEXAS INSTRUMENTS INCORPORATED		DATE 04/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946712-0001		REV M			
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0001	00001.000	EA		0946716-0001	HOUSING, PLASTIC								
0002	00001.000	EA		0946718-0001	FRONT PANEL								
0003	00001.000	EA		0946734-0001	ANGLE, REAR								
0004	00001.000	EA		0946735-0001	ANGLE, FRONT								
0005	00001.000	EA		0945025-0002	PWB ASSY, 990 PROGRAMMERS FRONT PANEL								
0006	00001.000	EA		0945024-0001	PLATE, ESCUTCHEON OVERLAY, PROG FRT PNL								
0009	00032.000	EA		0945151-0001	KEY, CALCULATOR, BLANK								
0010	00001.000	EA		0945037-0001	CAM, SWITCH								
0011	00001.000	EA		0972839-0001	CAM LOCK								
0012	00001.000	EA		0945232-0001	PIN, DETENT								
0013	00001.000	EA		0419763-0037	SPRING, HELICAL, COMPRESSION, 5.00 LBS/IN								
0014	00001.000	EA		0972841-0002	SWITCH, MICRO, SCREW TERM., 1 AMP, SPDT								
0014A					S1								
0016	00002.000	EA		0416925-0404	SPACER, ALUM, #4X.375								
0017	00002.000	EA		0972988-0010	SCREW 2-56 X .875 PAN HEAD CRES								
0018	00002.000	EA		0972988-0041	SCREW 8-32 X .250 PAN HEAD CRES								
0020	00010.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL - M515795-806							
0022	00016.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - M535333-71							
0023	00010.000	EA		0411115-0064	NUT, PLAIN 6-32 UNC-28 HEX CRES	QPL - M535649-264							
0024	00007.000	EA		0972990-0025	SCREW 6-32 X .375 FLT HEAD CRES								
DRAFTSMAN		DATE		CED DRAFTSMAN		DATE		DESIGN ENGINEER		DATE		TITLE	
		4-6-79										FRONT PANEL ASSY-990 MAINT UNIT	
APPROV MFG		DATE		APPROV PROJECT ENGINEER		DATE		RELEASED		DATE		PROJECT NO.	
												7506	
												PART NUMBER LM0946712-0001	
												REV M	

TEXAS INSTRUMENTS INCORPORATED		DATE 04/05/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946712-0001		REV M			
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0028	00000.010	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C								
0029	00002.000	EA		0418730-0105	WASHER # 6 FLAT TEFLON	QPL - NAS1515-06L							
0030	00001.000	EA		0944954-0001	INSULATOR, PWB, 141N								
0031	AR	RL		0996231-0001	TAPE, ADHESIVE TRANSFER 1/2"WIDE	MMM -950							
0032	00002.000	EA		0938193-0001	CLAMP, KEYBOARD								
0033	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO								
0034	00005.000	EA		0938192-0001	SUPPORT, KEYBOARD								
0035	00001.000	EA		0972965-0028	CAP, FIXED .220 MF 10% 50V								
0036	00002.000	EA		0232354-0001	LUG, CRIMP, 22-16 AWG #6 RING, LOOSE	-SEE TI DRAWING							
0037	00003.000	FT		0411634-0810	SLEEVE, PVC, .085 DIA. CLEAR	QPL - MIL-1-631							
0038	00003.000	FT		0416445-0006	WIRE BRAID ROUND .063 DIA								
0039	00001.000	EA		0419573-0001	CLIP, ALIGATOR #20 AWG OR SMALLER	076545-30							
0040	00000.200	FT		0410499-0006	INSULATION SLEEVING, TEFLON #22 NATURAL	QPL -81349							
0041	00004.000	EA		0945029-0001	CUSHION, FOAM, FRONT PANEL								
0042	00001.000	EA		0938179-0001	INSULATOR, KEYBOARD								
0043	00005.000	EA		0972990-0024	SCREW 6-32 X .312 FLT HEAD CRES								
0044	00005.000	EA		0972836-0001	WASHER, #6 .4370D .143ID .100HT FINISHING								
0045	00006.000	EA		0972988-0027	SCREW 6-32 X .312 PAN HEAD CRES								
0046	00006.000	EA		0411027-0805	WASHER, FLAT, .156ID X .312 OD X .035THK								
0047	AR	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C								
DRAFTSMAN		DATE		CED DRAFTSMAN		DATE		DESIGN ENGINEER		DATE		TITLE	
												FRONT PANEL ASSY-990 MAINT UNIT	
APPROV MFG		DATE		APPROV PROJECT ENGINEER		DATE		RELEASED		DATE		PROJECT NO.	
												LM0946712-0001	
												PART NUMBER LM0946712-0001	
												REV M	



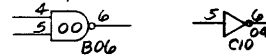
TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0946675-0001		REV F	
REV ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	FA		0946725-0001	WIRE-WRAP ASSY, 990 MAINT UNIT CNTRLR BD				
0002	REF	FA		0946714-9901	LOGIC DIAGRAM, 990 MAINT UNIT CNTRLR BD				
0003	REF	EA		0946737-9901	TEST PROCEDURE, 990 MAINT UNIT				
0005	00002.000	EA		0772312-0002	PLUG, IC DUAL IN-LINE 16 PIN .3165X.0165	SSW	-3333-177		
0005A					XB30 XB50				
0006	00001.000	EA		0538031-0006	CRYSTAL UNIT QUARTZ 13.5168 MHZ .005%	Y1	-CR50A/U13.5168		
0006A					Y1				
0007	00002.000	FA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	R1 R2	-R-25		
0007A					R1 R2				
0008	00001.000	FA		0972946-0095	RES FIX 18K OHM 5% .25 W CARBON FILM	R3	-R-25		
0008A					R3				
0009	00001.000	EA		0972946-0039	RES FIX 82.0 OHMS 5 % .25 W CARBON FILM	R4	-R-25		
0009A					R4				
0010	00001.000	EA		0972965-0016	CAP FIX CERAMIC .022 MF 10% 100V	C1	-CK06BX223K		
0010A					C1				
0012	00001.000	EA		0972965-0028	CAP, FIXED .220 MF 10% 50V	C2			
0012A					C2				
0013	00004.000	FA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 % 20 VOLT	-A07 -A67 -H07 -X67	-M39003/1-2295		
0013A									
0014	00021.000	FA		0972965-0020	CAP FIX CERAMIC .047 MF 10% 100V	QPL	-CK06BX473K		
0014A									
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	MAINTAINCE UNIT CONTROLLER ASSY	
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
							7506	LM0946675-0001	F

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 2 of		PART NUMBER LM0946675-0001		REV F	
REV ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0014A					-C07 -H07 -M07 -S07 -X07				
0014B					-A27 -E27 -K27 -P27 -U27				
0014C					-C47 -H47 -M47 -S47 -X47				
0014D					-C67 -E67 -K67 -P67 -U67				
0014E					-M77				
0015	00001.000	EA		0972900-7400	NETWORK SN74LS00M	TI	-SN74LS00M		
0015A					F60				
0016	00001.000	FA		0972749-0001	NETWORK, SN74LS08N				
0016A					L60				
0017	00001.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N		
0017A					N20				
0018	00002.000	FA		0972900-7474	NETWORK SN74LS74N				
0018A					F40 R20				
0019	00003.000	EA		0972900-7112	NETWORK SN74LS112N	TI	-SN74LS112N		
0019A					F30 R60 V60				
0020	00004.000	EA		0972900-7138	NETWORK SN74LS138N	TI	-SN74LS138N		
0020A					B60 J01 L01 N01				
0021	00001.000	FA		0972900-7155	NETWORK SN74LS155N	TI	-SN74LS155N		
0021A					R01				
0022	00003.000	EA		0222222-7163	NETWORK SN74163N				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	MAINTAINCE UNIT CONTROLLER ASSY	
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM0946675-0001	F

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 3 of		PART NUMBER LM0946675-0001		REV F	
REV ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0022A					F20 J20 L70				
0023	00005.000	EA		0972817-0002	IC, SN74LS193 4 BIT-UP/DOWN COUNTERS				
0023A					N40, R40, T40, V40, Y40				
0024	00007.000	FA		0972900-7194	NETWORK SN74LS194N	TI	-SN74LS194N		
0024A					V01 Y01				
0025	00001.000	EA		0972810-0001	NETWORK-SN74LS221N				
0025A					B40				
0026	00002.000	EA		0972668-0001	NETWORK SN74LS251N				
0026A					T01 T60				
0027	00002.000	FA		0972667-0001	NETWORK, SN74LS279N				
0027A					J40 N60				
0028	00001.000	EA		0222222-7150	NETWORK SN74150N				
0028A					X20				
0029	00002.000	FA		0972159-7265	NETWORK, SN74265N				
0029A					B20 D20				
0030	00002.000	FA		0972496-0001	NETWORK, SN74273N				
0030A					F01 T20				
0031	00002.000	EA		0996017-0001	INTERGRATED CIRCUIT, QUAD J-K FLIP-FLOP	TI	-SN74276N		
0031A					D60 Y60				
0032	00001.000	EA		0972787-0003	NETWORK SN74LS367N				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	MAINTAINCE UNIT CONTROLLER ASSY	
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM0946675-0001	F

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 4 of		PART NUMBER LM0946675-0001		REV F	
REV ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0032A					J60				
0033	00001.000	FA		0803118-0008	RESISTOR 1.0K OHMS DIL PULL UP 16 PINS	BFC	-8981R1.0K		
0033A					L40				
0034	00001.000	FA		0222222-7400	NETWORK SN7400N				
0034A					D40				
0035	00001.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N				
0035A					F70				
0036	00002.000	EA		0972815-0001	NETWORK-SN74LS85N				
0036A					N30 R30				
0037	00000.020	FT		0417177-0211	SLEEVE, PVC .170 DIA BLACK .012 WALL THK				
0038	00000.010	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL	-917-6302		
0039	00001.000	FA		0946723-0001	CONTROL ROM, 990 MAINT UNIT, MSHW				
0039A					D01				
0040	00001.000	FA		0946723-0003	CONTROL ROM, 990 MAINT UNIT, LSHW				
0040A					R01				
0041	00001.000	EA		0972900-7410	NETWORK SN74LS10N				
0041A					F50				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	MAINTAINCE UNIT CONTROLLER ASSY	
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM0946675-0001	F

- NOTES: UNLESS OTHERWISE SPECIFIED;
- ALL DEVICE TYPES ARE PREFIXED WITH SNT4
 - GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S EXCEPT RESISTOR PKGS
 - VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S
 - DEVICE TYPE, PIN NUMBERS, AND LOCATION OF IC IS SHOWN AS FOLLOWS:



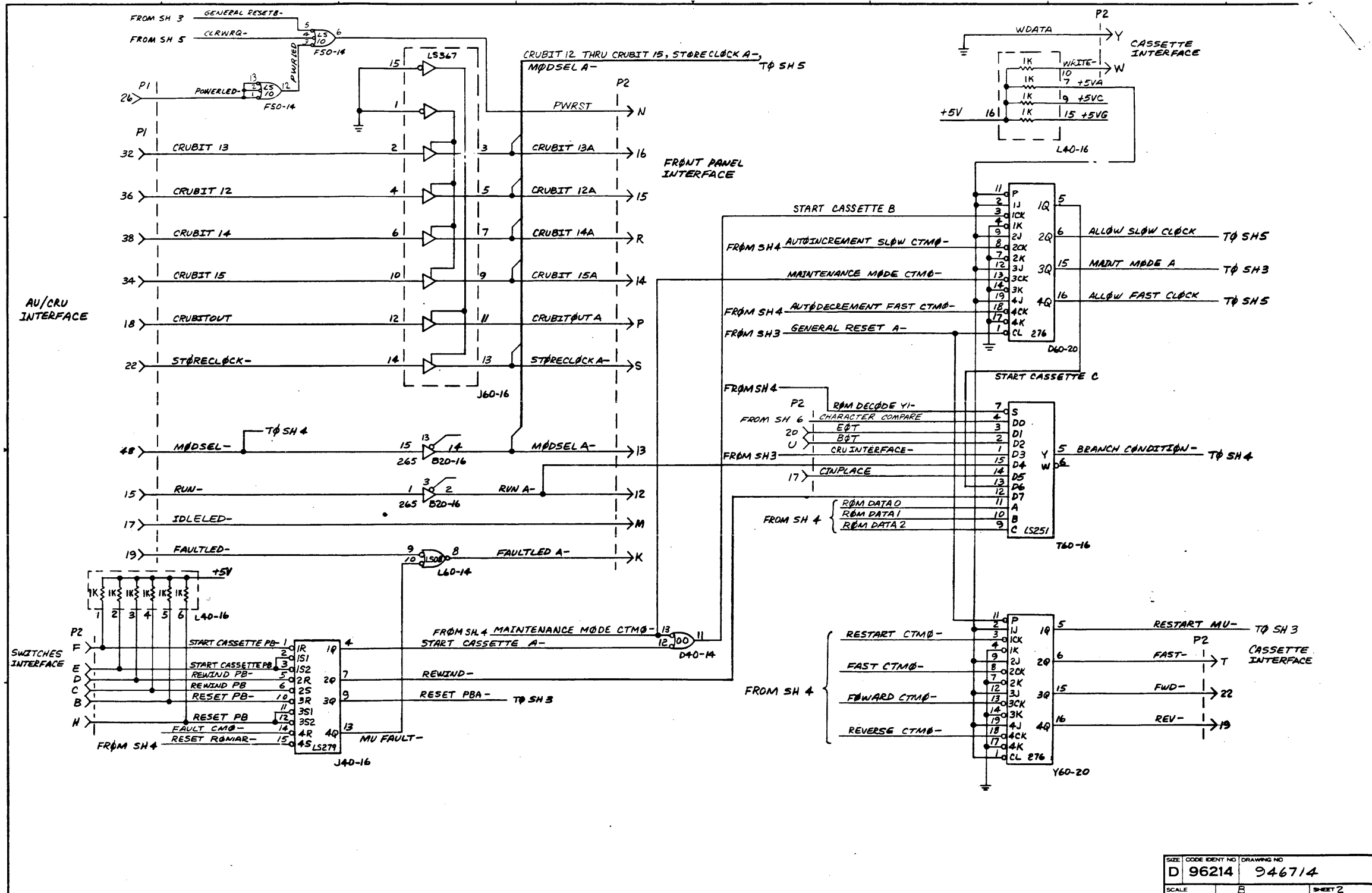
00 AND 04 = DEVICE TYPE
 4, 5, AND 6 = PIN NUMBERS
 B06 AND C10 = LOCATION; FIRST LETTER DENOTES COLUMN SECOND AND THIRD DIGITS DENOTES ROW IC IS LOCATED AT THE INTERSECTION OF ROW AND COLUMN

~~5. DEVICES SUPPLIED WITH *E MESH ARE DENOTED WITH *~~

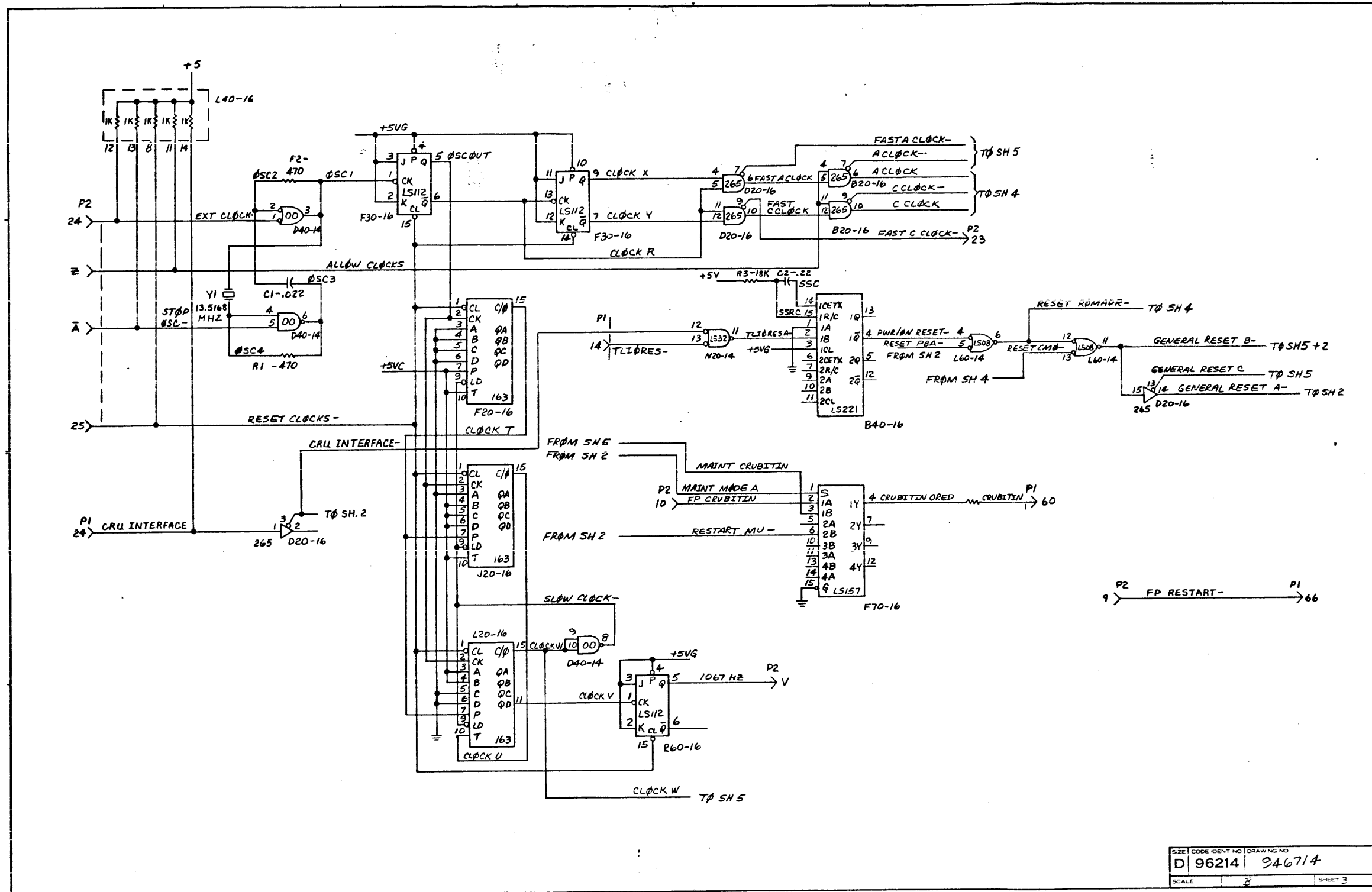
REVISIONS		
ZONE	LTR	DESCRIPTION
A	31	41877 (2) P. 1
B		417406 (C) S. D. 1/16

REV STATUS OF SHEETS	REV	B	B	B	B	A	2	1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION																																																																											
	SH	1	2	3	4	5																																																																																		
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<table border="1"> <tr> <td colspan="3">HOLE TOLERANCE</td> <td colspan="3">3 4 6 6 7 5</td> <td colspan="3">7 5 0 6</td> </tr> <tr> <td>.013 +.004</td> <td>.125</td> <td>.251 +.008</td> <td colspan="3"></td> <td colspan="3"></td> </tr> <tr> <td>THRU -.001</td> <td>THRU .001</td> <td>THRU .001</td> <td colspan="3"></td> <td colspan="3"></td> </tr> <tr> <td>1.38</td> <td>2.50</td> <td>5.00</td> <td colspan="3"></td> <td colspan="3"></td> </tr> </table>							HOLE TOLERANCE			3 4 6 6 7 5			7 5 0 6			.013 +.004	.125	.251 +.008							THRU -.001	THRU .001	THRU .001							1.38	2.50	5.00							<table border="1"> <tr> <td>801 +.008</td> <td>.751 +.010</td> <td>1.001 +.012</td> <td colspan="3"></td> <td colspan="3"></td> </tr> <tr> <td>THRU -.001</td> <td>THRU .001</td> <td>THRU .001</td> <td colspan="3"></td> <td colspan="3"></td> </tr> <tr> <td>1.000</td> <td>1.000</td> <td>2.000</td> <td colspan="3"></td> <td colspan="3"></td> </tr> </table>							801 +.008	.751 +.010	1.001 +.012							THRU -.001	THRU .001	THRU .001							1.000	1.000	2.000							<table border="1"> <tr> <td>DESIGN ACTIVITY RELEASE</td> <td colspan="2">D 96214</td> <td>946714</td> </tr> <tr> <td>DATE</td> <td colspan="2">4/12/76</td> <td></td> </tr> </table>				DESIGN ACTIVITY RELEASE	D 96214		946714	DATE	4/12/76		
HOLE TOLERANCE			3 4 6 6 7 5			7 5 0 6																																																																																		
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DATE	4/12/76																																																																																							
SCALE NONE							SHEET 1 OF 6																																																																																	

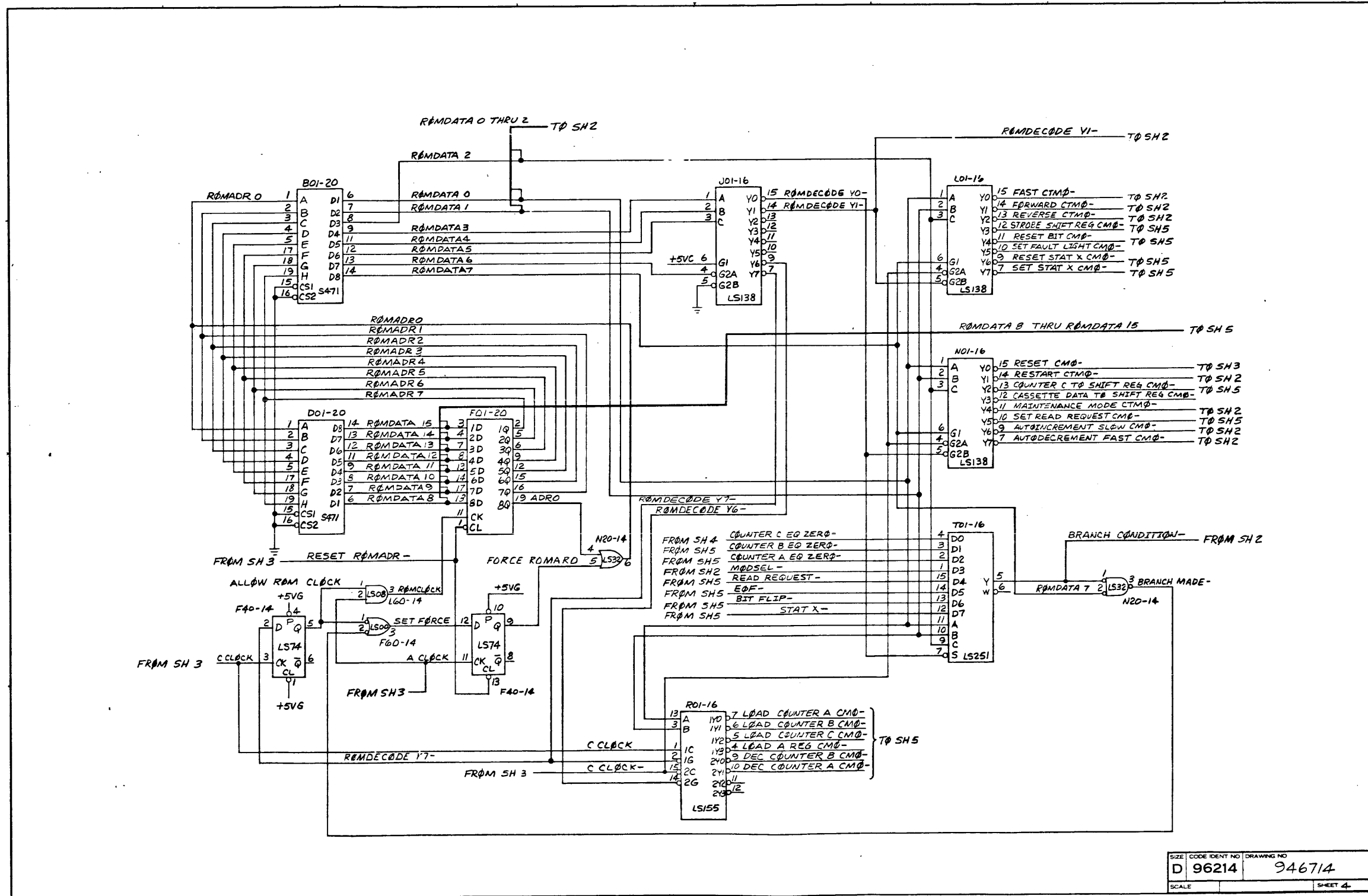
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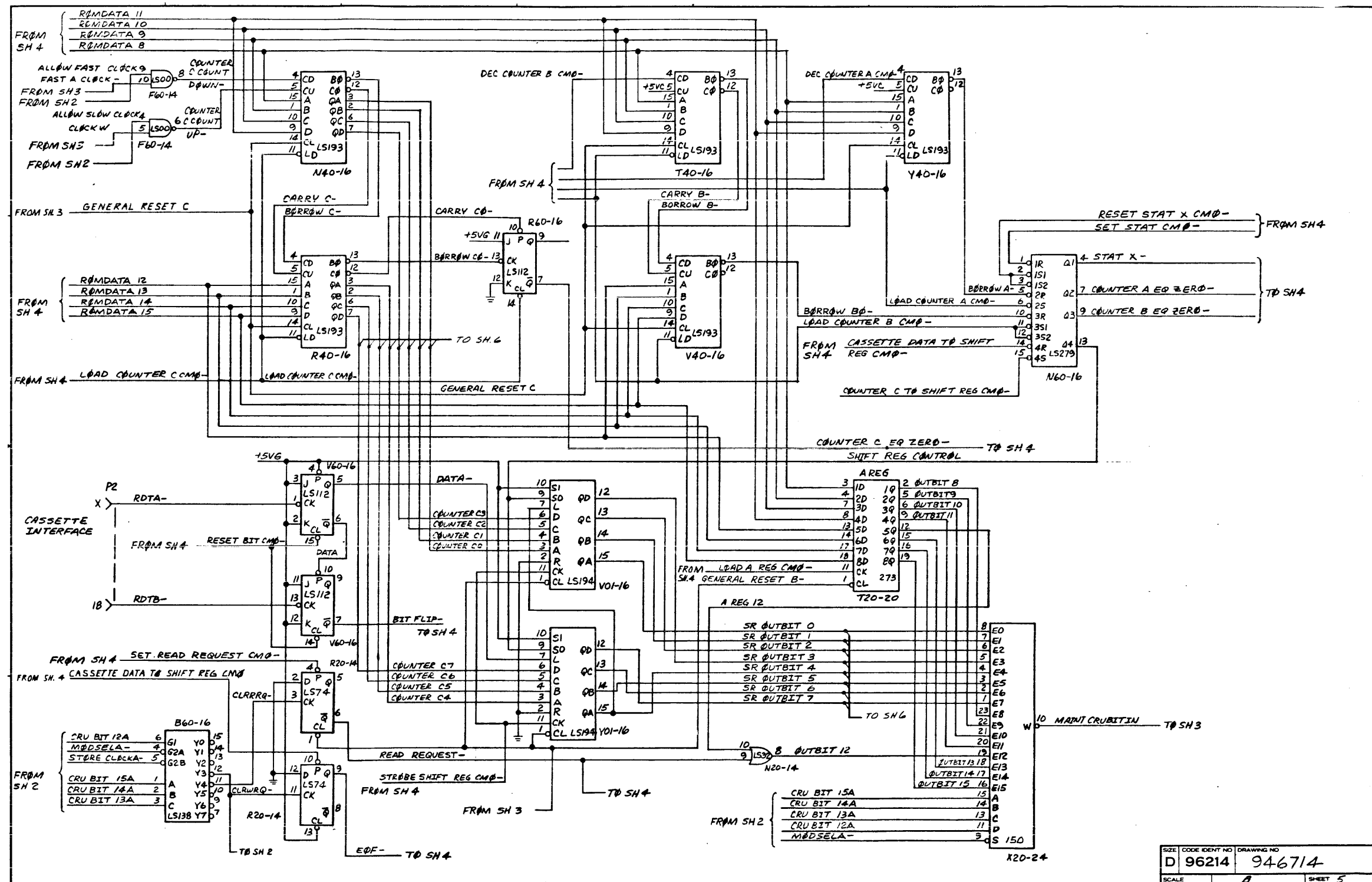
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946714
SCALE	B	SHEET 2



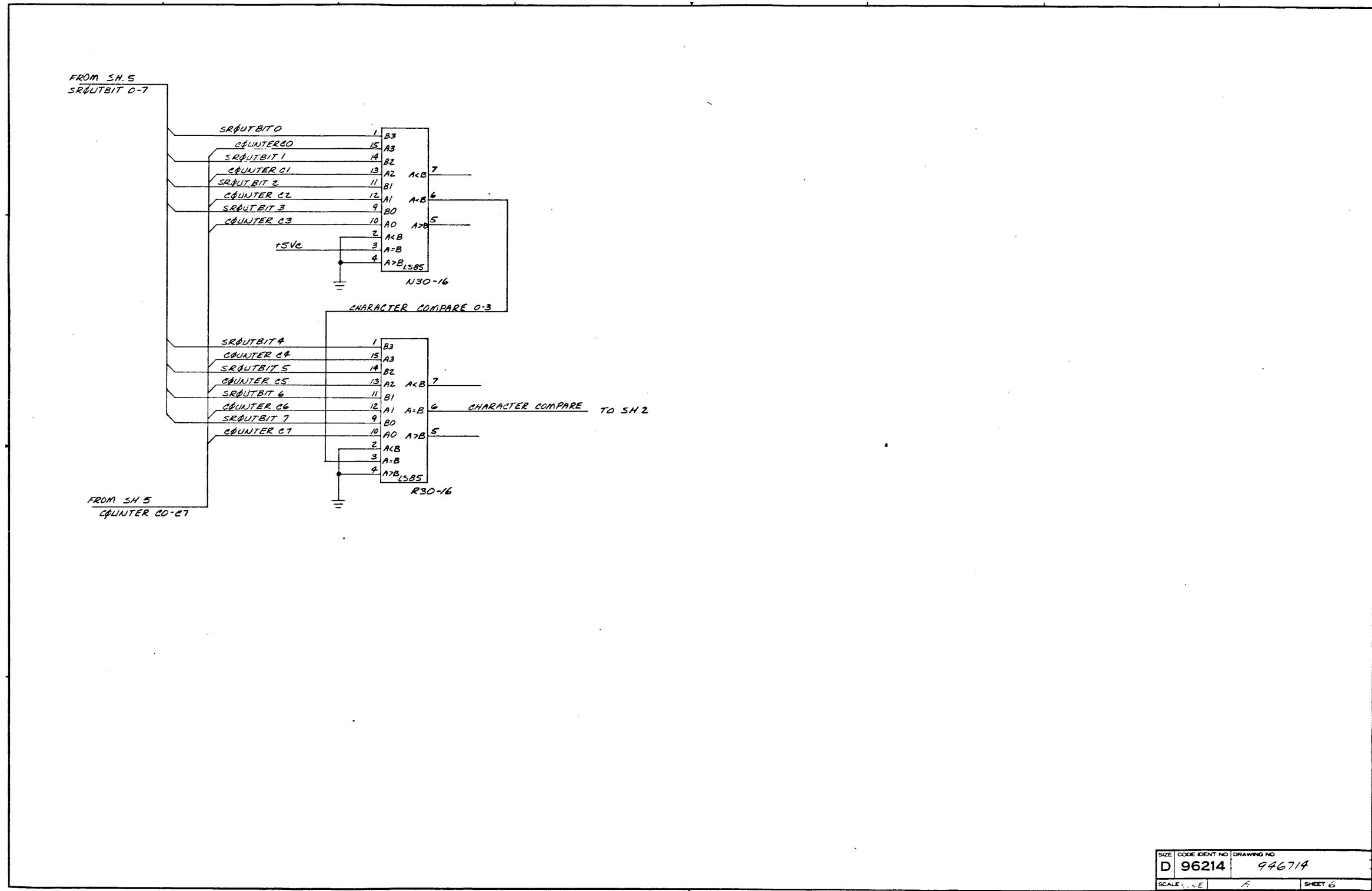
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946714
SCALE	2	SHEET 3



SIZE	CODE IDENT NO	DRAWING NO
D	96214	946714
SCALE		SHEET 4



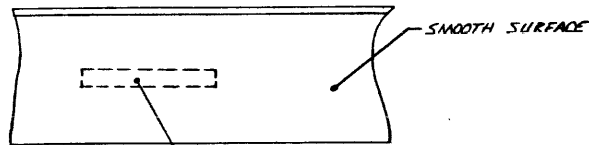
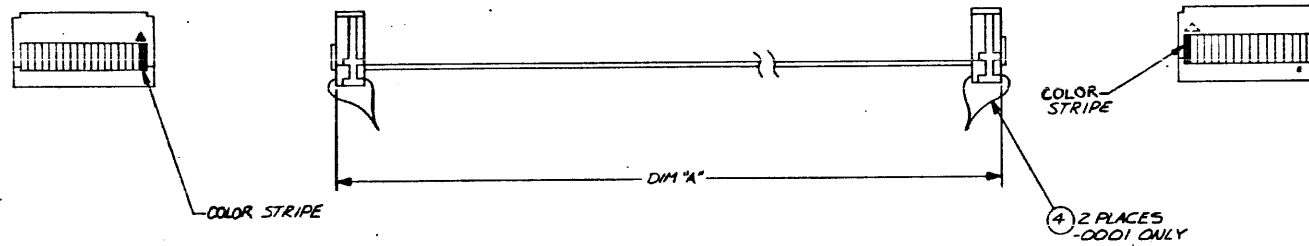
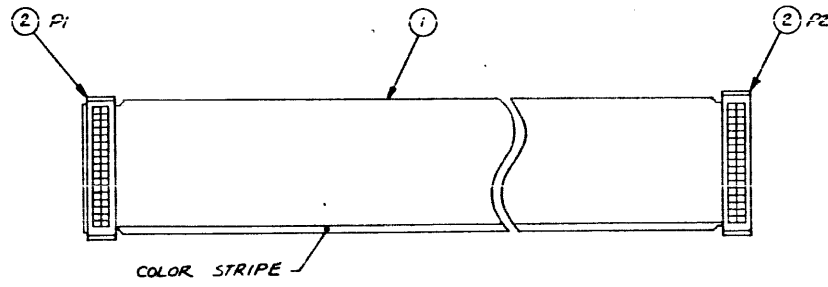
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946714
SCALE		SHEET 5



SIZE	CODE IDENT NO	DRAWING NO
D	96214	946714
SCALE	1:1	SHEET 6

NOTES:
 1. INSTALL CABLE AS FOLLOWS: PIN 1 TO PIN 1, PIN 2 TO PIN 2 THROUGH ENTIRE CABLE
 2. ITEM 101 ON -0001 LM CONSISTS OF BULK CABLE ASSY MAT L

ZONE	TH	DESCRIPTION	DATE	APPROVED
A	1	CA 411895-10 (1) REVISED CONNECTOR # B7	5/24/76	J. R. [Signature]
B	1	20427118 (2) L. 540 (1) THIS ECN WAS CONTINGENT UPON REV C ECN # 424375 (2) DIM A - 0003 WAS 11.0 ± .20 (3) LM - 0003 TITLE WAS "CABLE ASSY, 11 INCH"	7-28-77	J. R. [Signature]
C	1	CA 424375 (3) C 540 (1) DWG TITLE WAS CABLE ASSY, CPU TO MAINT UNIT (4) EN 3-5, DIM A WAS 72.00 ± 1.00 (5) ADDED PULL TABS - 0001 (6) ADDED DIM A TABLE (7) LM - 0001 TITLE WAS CABLE ASSY - CPU TO MAINT UNIT AND ADDED ITEM 4 (8) LM, ADDED - 0002 (9) LM, ADDED - 0003 (10) ADDED 938176 TO NEXT ASSY BLK	7-28-77	J. R. [Signature]
D	1	0049098 (1) 2 (1) CREATED - 5001 LM (2) ADDED ITEM 101 ON - 0001 LM (3) ADDED ITEM 2 (4) ADDED PU BLK	7-11-79	J. R. [Signature]



946727-0003	12.00 ± .20
946727-0002	4.50 ± .20
946727-0001	72.00 ± 1.00
PART NUMBER	DIM "A" (IN)

PART NO.	DESCRIPTION
946727-5001	BULK CABLE ASSY MAT L FOR -0001
946727-0003	CABLE ASSY, 12 INCH
946727-0002	CABLE ASSY, 4 INCH
946727-0001	CABLE ASSY, 72 INCH

PROCESSES:
 1. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .12, COLOR BLACK

QTY REQD	-2	-1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 F8	DIMENSIONS ARE IN INCHES	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	ANGLES ± 1°	3 PLACE DECIMALS ± .010
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			2 PLACE DECIMALS ± .02

DATE	BY	DESCRIPTION
3/2/76	J. R. [Signature]	DESIGN
8/15/76	[Signature]	CHK
3/10/76	[Signature]	APP
3/10/76	[Signature]	APP
4/1/76	[Signature]	APP

DESIGN ACTIVITY RELEASE	DATE	BY
3/9/76	3/9/76	[Signature]

DESIGN ACTIVITY RELEASE	DATE	BY
3/8/76	3/8/76	[Signature]

SIZE	CODE IDENT NO	DRAWING NO
D	96214	946727

SCALE	SHEET
1:1	

TEXAS INSTRUMENTS
 INCORPORATED
 Equipment Group Dallas, Texas

CABLE ASSY,
 MAINTENANCE UNIT

TEXAS INSTRUMENTS INCORPORATED		DATE 07/18/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0946727-0001		REV D		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0002	00002.000	EA		0972697-0002	CONNECTOR,FLTCBL,20P,CBL MTG W/STR RLF							
0002A					P1 P2							
0003	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE							
0004	00002.000	EA		0996499-0002	EXTENDER CABLE PULL-TAB 1.0 X 3.0	075037-3490-2						
0101	00001.000	EA		0946727-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001							
DRAFTSMAN		DATE	CKD	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
				J. Roth	8-2-79			CABLE ASSY-72 INCH				
APPD MFG		DATE	APPD	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER	REV		
								7506	LM0946727-0001	D		

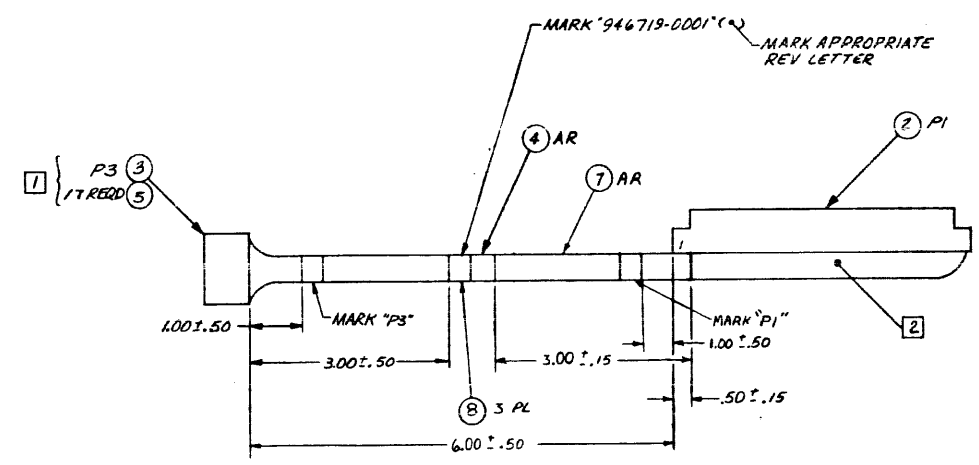
TEXAS INSTRUMENTS INCORPORATED		DATE 07/18/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0946727-0002		REV D		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00006.500	FT		0972694-0001	CABLE,FLAT,20 CONDUCTOR,GND PLANE,DRAIN							
0002	00002.000	EA		0972697-0002	CONNECTOR,FLTCBL,20P,CBL MTG W/STR RLF							
0003	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE							
DRAFTSMAN		DATE	CKD	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
								CABLE ASSY-4 INCH				
APPD MFG		DATE	APPD	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER	REV		
									LM0946727-0002	D		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/18/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0946727-0003		REV D		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	FT		0972694-0001	CABLE,FLAT,20 CONDUCTOR,GND PLANE,DRAIN							
0002	00002.000	EA		0972697-0002	CONNECTOR,FLTCBL,20P,CBL MTG W/STR RLF							
0003	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE							
DRAFTSMAN		DATE	CKD	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
								CABLE ASSY-12 INCH				
APPD MFG		DATE	APPD	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER	REV		
									LM0946727-0003	D		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/18/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0946727-5001		REV D		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00006.000	FT		0972694-0001	CABLE,FLAT,20 CONDUCTOR,GND PLANE,DRAIN							
DRAFTSMAN		DATE	CKD	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
								BULK CABLE ASSEMBLY MATERIAL FOR -0001				
APPD MFG		DATE	APPD	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER	REV		
									LM0946727-5001	D		

- NOTES:
- 1 ALTERNATE PART FOR ITEM 3 IS 972202-0027 IF 972202-0027 IS USED, THEN ITEM 5 MUST BE REPLACED WITH 972809-0002.
 - 2 LAY IN WIRES AS CLOSE AS POSSIBLE USE .5 INCH LENGTH OF ITEM 9 ON EACH CONNECTION

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		EN 407122 (C) M. 3/11/76 DELETED ITEM 6 (2) UPDATED REV LEVEL BLOCK	5/12/76	<i>[Signature]</i>
B		EN 411097-1 D. 11/11/76 (1) ITEM 4, 5, 7, WAS 538247-3999, 539380-0003, 972146-0006 QTY AR (2) ADDED ITEM 9 (3) REVISED NOTE 2 (4) UPDATED REV LEVEL BLOCK	1/22/76	<i>[Signature]</i>
C		EN 417331(C) R. 11/11/76 (1) ITEM 9, WA. #17177-0005, ITEM 7, WA. #17177-0005 (2) UPDATED REV LEVEL BLOCK	9/20/76	<i>[Signature]</i>
D		EN 417331(B) R. 11/11/76 (1) UPDATED REV LEVEL BLOCK	9/20/76	<i>[Signature]</i>
E		EN 920791(C) R. 11/11/76 (1) ADDED DIM 3.00 ± .15 TO SLEEVING ITEM 7 LOCATION (2) UPDATED REV LEVEL BLOCK	11/11/76	<i>[Signature]</i>



PROCESSES:
 1. SOLDER PER F-127, METHOD I
 2. MARK PER F-100, METHOD III,
 CLASS 12, COLOR BLACK, TYPE 6

WIRING LIST 946720-9901	*	A	A	B	B
CABLE ASSY 946719	*	A	B	C	D E

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES		
CONCENTRICITY MACHINED DIAMETERS: 0.10 FR	TOLERANCES		
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES ± 1°		
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ± 0.10		
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	2 PLACE DECIMALS ± 0.2		

DATE	BY	CHKD	DATE
3/10/76	<i>[Signature]</i>	<i>[Signature]</i>	3/10/76
3/11/76	<i>[Signature]</i>	<i>[Signature]</i>	3/11/76
3/11/76	<i>[Signature]</i>	<i>[Signature]</i>	3/11/76

TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas	
CABLE ASSY - CPU TO CONTROLLER, 890 M/L	
SIZE CODE IDENT NO DRAWING NO	D 96214 946719
SCALE NONE	SHEET



TEXAS INSTRUMENTS
INCORPORATED

DATE 05/15/76

LIST OF MATERIAL


PAGE 1 of

PART NUMBER
LM 946719 -0001

REV
E 0

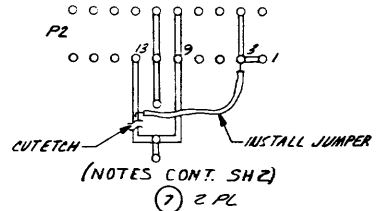
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	REF	EA		946720 -5501	WIRE LIST, CABLE ASSY.- CPU TO CONTROLLER	
0002	03001.000	EA		800211 -0003	CONNECTOR, ELECTRICAL PWB	3VH -40/1CN5
0002A				P1		
0003	00001.000	EA		972847 -0002	CONNECTOR FOCUSING, PLASTIC, 20 COND., .100	
0003A				P3		
0004	00014.200	FT		538347 -1559	WIRE PCK LP B-26 AWG 19 STR WHITE	JUD - HH0109
0005	00017.000	EA		535380 -0002	CONTACT, ELECTRICAL # AWG 20-24	AMP - 85967-2LP
0007	00000.500	FT		972436 -0012	INSULATION, FLEXIBLE	
0008	00003.000	EA		418201 -0001	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL - MS3368-1-9
0009	00001.000	FT		417177 -0177	SLEEVE, PVC .093 DIA BLACK .020 WALL	QPL - MIL-I-23053/2

DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
				CABLE ASSY.- CPU TO CONTROLLER, 990 M/U
APPROV. MFG.	DATE	PROJECT ENGINEER	DATE	RELEASED
			PROJECT NO.	PART NUMBER
			7506	LM 946719 -0001
				REV
				E 0

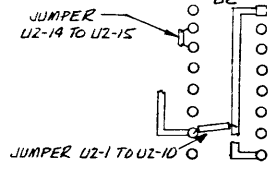
APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
946719	7506	A	CN411938 (C) <i>D. Burkland</i>	7/27/76	<i>Malcolm</i>
		B	CN417403 (C) <i>D. Burkland</i> (1) ADDED WIRE NO. 18 TO SHEET 2	9/15/76	<i>Malcolm</i>
REV					
SHEET					
REV STATUS OF SHEETS		REV B B			
		SHEET 1 2			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMAL ±.010 2 PLACE DECIMAL ±.02		DWN <i>L. HENRY</i> 3/2/76	 TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas		
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		CHK <i>Malcolm</i> 3/10/76	WIRING LIST, - 990 MAINTENANCE UNIT CPU TO CONTROLLER		
INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100		ENGR <i>Anna Roseman</i> 3/11/76			
		APP'D <i>N. KROGAN</i> 3/17/76	SIZE	CODE IDENT NO	DRAWING NO.
		CONTR NO	A	96214	946720
		DESIGN ACTIVITY RELEASE	SCALE NONE	B	SHEET 1 OF 2
		<i>Malcolm</i> 3/17/76			

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
1	NO 26 WHT	AR			P3-1	P1-A	GND	4
2					-11	P1-11	STORECLK-	
3					-2	-LCV	GND	
4					-12	-40	GND	
5					-3	-33	RESTART-	
6					-13	-L	FAULTLED-	
7					-4	-30	CRUBITIN	
8					-6	-K	IDLELED-	
9					-16	-J	RUNLED-	
10					-17	-24	MODSEL-	
11					-8	-9	CRUBITOUT	
12					-18	-17	CRUBIT15	
13					-19	-19	CRUBIT14	
14					-10	-18	CRUBIT12	
15	NO 26 WHT	AR			P3-20	P1-16	CRUBIT13	4
16	NO 26 WHT	AR			P3-14	P1-7	TLIORES -	4
17	NO 26 WHT	AR			P3-9	P1-12	CRU INTERFACE	4
18	NO 26 WHT	AR			P3-7	P1-13	POWERLED-	

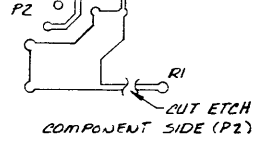
NOTE: CONT'D:
 3. REWORK PROCEDURE FOR PWB 946766-0001 REV A
 A. ON CONDUCTOR SIDE CUT ETCH CONNECTING P2-B
 TO P2-9 AND INSTALL JUMPER WIRE (30 AWG SOLID)
 FROM P2-13 TO P2-3.



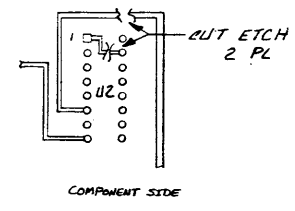
NOTES: (COND)
 E. ON SOLDER SIDE JUMPER UZ-14 TO UZ-15 AND
 JUMPER UZ-1 TO UZ-10 (USE 30 AWG SOLID WIRE)



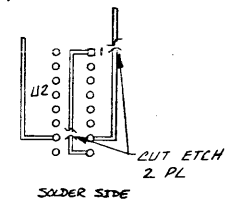
NOTES:
 1. U3 + U4 NOT USED
 2. REWORK PROCEDURE FOR PWB 946766-0001 *
 AND REV A, UNLESS OTHERWISE NOTED
 A. CUT ETCH CONNECTING P2-17 TO GND PLANE
 (REV A ONLY)



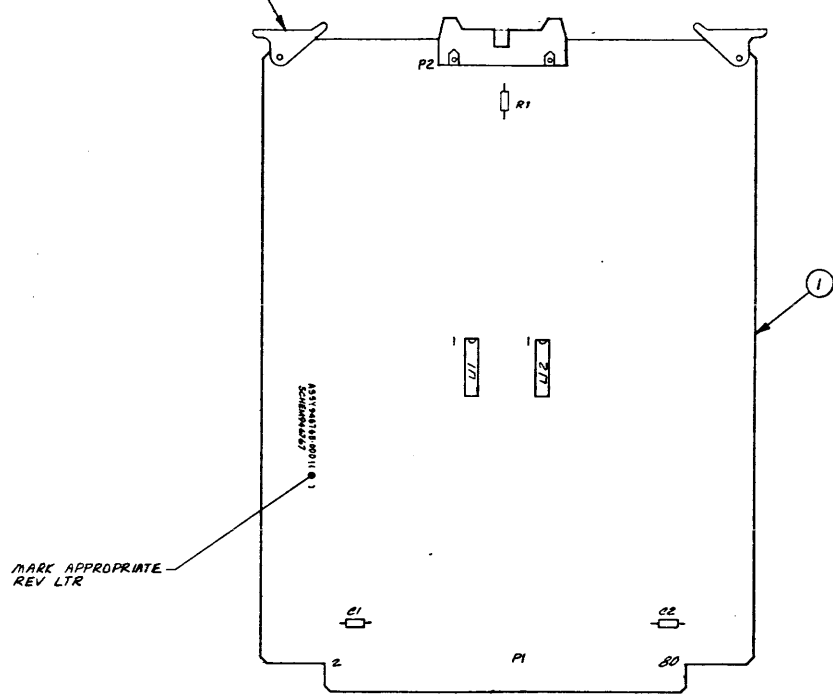
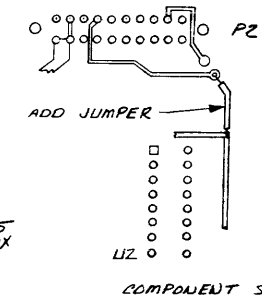
B. ON COMPONENT SIDE CUT ETCH CONNECTING
 TO UZ-6 AND ETCH CONNECTING UZ-1 TO
 UZ-15



C. ON CONDUCTOR SIDE CUT ETCH CONNECTING
 UZ-1 TO UZ-8 AND ETCH CONNECTING
 UZ-7 TO P2-B.



D. INSTALL JUMPER WIRE (30 AWG SOLID) FROM
 CONNECTOR P1-76 TO P2-B



REVISIONS			
ZONE/LTR	DESCRIPTION	DATE	APPROVED
A	CN 157748 (1) Item 11 LM, ITEM 7 WAS 972748-0001 (2) ADDED REWORK NOTE 2 (3) UPDATED REV LEVEL BLOCK	5/1/76	[Signature]
B	CN 415307 (1) Item 11 ADDED ITEM 8 TO LM (2) ADDED TEST PROC TO REV LEVEL BLOCK	9/9/76	[Signature]
C	CN 41748 (1) Item 11 ADDED NOTE 3 (2) UPDATED REV LEVEL BLOCK	9/16/76	[Signature]
D	CN 417301 (1) Item 2 (2) LM, ITEM 4 WAS 972759-0021 (25V CAP) (3) UPDATED REV LEVEL BLOCK	9-28-76	[Signature]
E	CN 417431 (1) Item 11 (2) UPDATED REV LEVEL BLOCK	9-28-76	[Signature]
F	CN 429066 (1) Item 11 (2) UPDATED REV LEVEL BLOCK	2-18-78	[Signature]
G	CN 426255 (1) Item 11 (2) ADDED NOTE 4 (2) UPDATED REV LEVEL BLOCK (3) ADDED SH 2	3-30-78	[Signature]

REV STATUS	REV	6	6
OF SHEETS	SHEET	1	2

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
-----	------	---------	------------	----------------------------	-----------------------------	---------------------------

UNLESS OTHERWISE SPECIFIED
 REMOVE ALL BURRS AND SHARP EDGES
 CONCENTRICITY MACHINED DIAMETERS = .010 FIR
 DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
 IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
 INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 ANGLES = ±1°
 3 PLACE DECIMALS = .010
 2 PLACE DECIMALS = .02

HOLE TOLERANCE
 .013 + .004 THRU .001
 .125 - .001 THRU .250 - .001
 .500 - .001 THRU .750 - .001

251 + .006 THRU .500 - .001
 1.001 + .012 THRU 1.000 - .001
 2.000 - .001

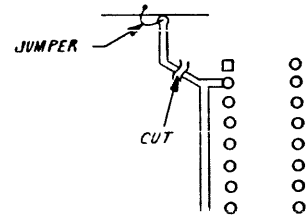
OWN [Signature] DATE 3/15/76
 CHN [Signature] 3/25/76
 ENGR [Signature] 3/25/76
 APPR [Signature] 3/25/76
 CONTR NO [Signature] 3/25/76
 DESIGN ACTIVITY RELEASE [Signature] 3/25/76
 MFG/TEST [Signature] 3/25/76

TEXAS INSTRUMENTS INCORPORATED EQUIPMENT GROUP DAIRY TEXAS
 960 MAINTENANCE EXTENDER CARD
 SIZE CODE IDENT NO DRAWING NO
 D 96214 946765
 SCALE 1:1 SHEET 1 OF 2

PROCESSES:
 1. SOLDER PER F-127, METHOD I, AND/OR F-124
 2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .09, COLOR BLACK

REV LEVEL BLOCK	TEST PROCEDURE (946971-9901)	FWB (946766-0001)	LOGIC DIAGRAM (946767-9901)	ASST (946765-0001)	A	B	C	D	E	F	G
	* * * * *	* A A A A	* A A A A A A A	* A B C D E F G							

NOTES CONTINUED
4. REWORK PROCEDURE FOR PWB 946766-001 REV B
OR C
(A) ON COMPONENT SIDE CUT ETCH BETWEEN FEED
THRU AND VI-2 / PI-16. JUMPER TO WIDE
ETCH DIRECTLY ABOVE FEED THRU



TEXAS INSTRUMENTS CORPORATION DALLAS, TEXAS	DATE 3-25-78	SIZE / PCHM NO D96214	DRAWING NO 946765	REV 6
	ISSUE DATE 3-30-78	SCALE AS SHOWN	SHEET 2	



TEXAS INSTRUMENTS
INCORPORATED

DATE 05/23/76

LIST OF MATERIAL

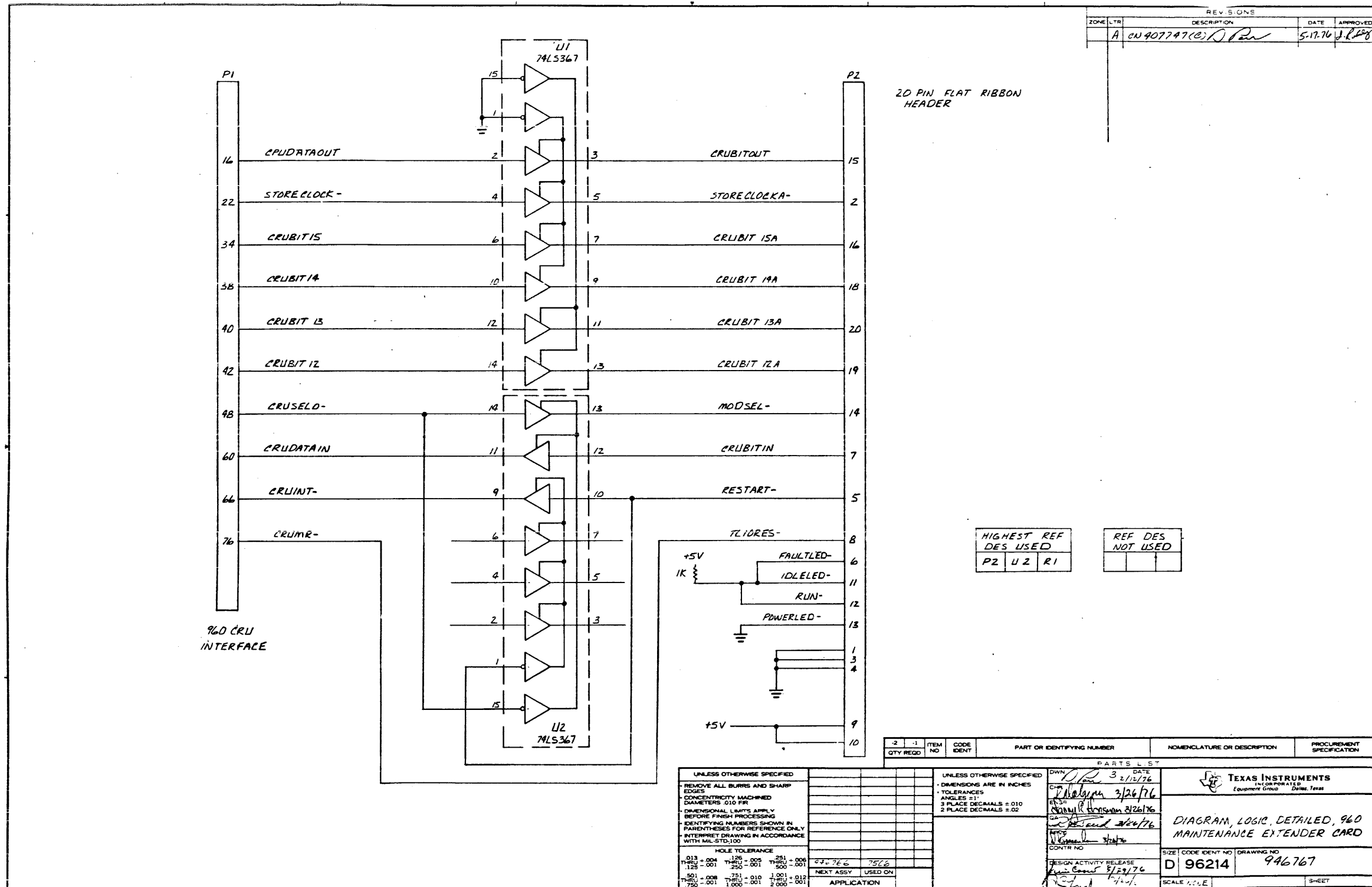
PAGE 1 of

PART NUMBER
LM 946765 -0001

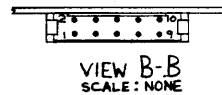
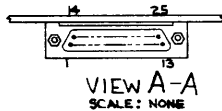
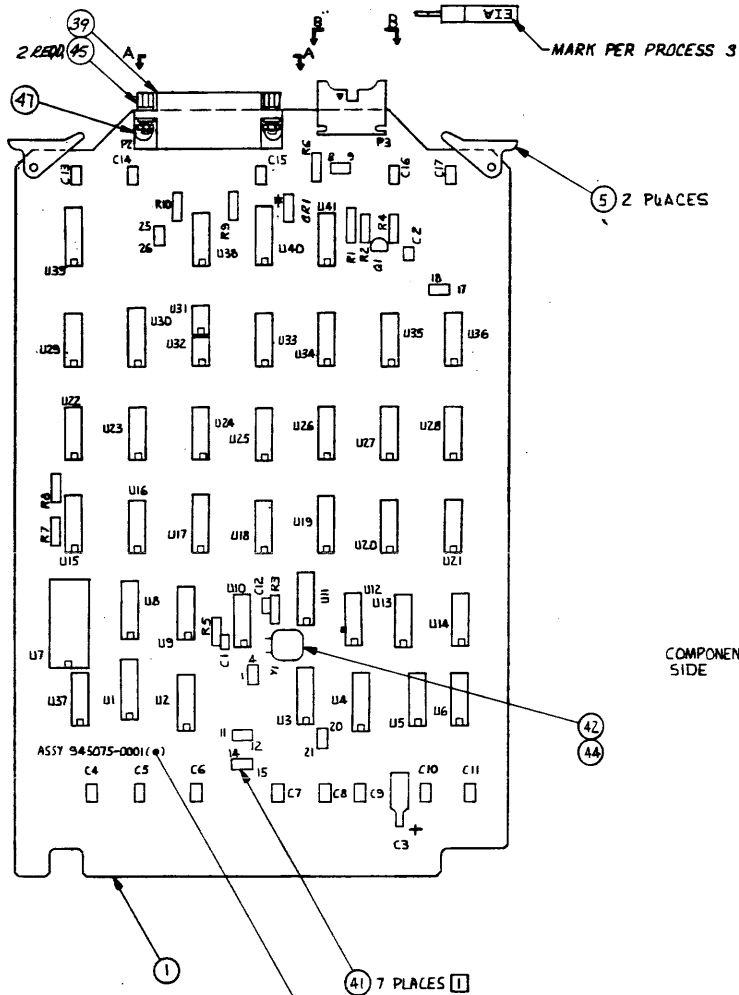
REV
G

PRINT ITEM NUMBER	QUANTITY ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
C001	00001.000	EA		946766-0001	PWB, 960 MAINTENANCE EXTENDER	
C002	REF	EA		946767-9901	LOGIC DIAGRAM, 960 MAINT EXTENDER	
C003	00001.000	EA		972137-0001	CONNECTOR, PC-HEADER 20 CONTACT	BFI - 65483-001
C003A					P2	
C004	00002.000	EA		972763-0021	CAP., FIX FC, AXIAL LEAD, .047 UF, +80%, -20%	
C004A					C1 C2	
C005	00001.000	EA		972946-0065	RES. FIX 1.0K OHM 5% .25 W CARBON FILM	ROH - R-25
C005A					R1	
C006	00002.000	EA		972787-0003	NETWRK SA74LS367N	
C006A					U1 L2	
C007	00002.000	EA		533844-0001	EJECTOR, NYLON, NON-LOCKING, PWR	
C008	REF			948971-9901	TEST PROC, UNIT SP ACT 960/990 MDU I/FBD	

DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
			2-24-76	960 MAINTENANCE EXTENDER CARD
APPD. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED
			7506	
				PART NUMBER LM 946765 -0001
				REV G



ZONE	LTR	DESCRIPTION	DATE	APPROVED
V		CN450547 (C) J. Hansen (1) CHANGED PICTORIAL (2) ADDED ITEM 47 (3) UPDATED REV LEVEL BLOCK	3-13-80	E. Dieg

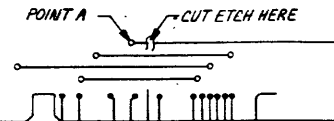


- PROCESSES:
1. SOLDER PER F-127, METHOD I AND/OR F-124
 2. MARK PER F-100, METHOD II, CLASS I, HEIGHT .09, COLOR BLACK
 3. MARK PER F-100, METHOD VII, HEIGHT .12, COLOR BLACK

REV LEVEL	TEST PROC (945076-9901)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	R	T	V
	LOGIC 945077-9901	*	A	B	C	C	C	D	E	E	F	F	G	G	G	H			
	PWB 945076-0001	B	C	D	D	E	E	E	E	F	F	F	F	F	F	F			
	ASSY 945075-0001	*	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	V

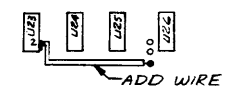
- NOTES:
1. INSTALL JUMPER PLUGS, ITEM 41, IN THE FOLLOWING LOCATIONS (733 ASR CONFIGURATION):
 E1 TO E4 E17 TO E18
 E8 TO E9 E20 TO E21
 E11 TO E12 E25 TO E26
 E14 TO E15

2. REWORK INSTRUCTIONS: PWB 945076 REV B AND REV B REWORKED TO REV C.
 A. CONNECT A 30 GAUGE INSULATED WIRE FROM POINT A TO LIFTED PIN 4 ON U24

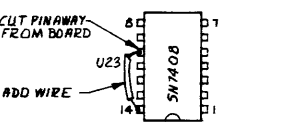


- B. CONNECT A 30 GAUGE INSULATED WIRE FROM U24-4 TO U14-3. PUT WIRE ON CONDUCTOR SIDE OF BOARD

- C. CONNECT A 30 GAUGE INSULATED WIRE FROM U23-2 TO FEED-THRU AS SHOWN



3. FOR PWB (945076) REV F AND EARLIER. CUT PIN U23-10 AWAY FROM BOARD. ADD 30 GAUGE INSULATED WIRE BETWEEN THE CUT PIN OF U23 PACKAGE TO PIN U23-14



ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN440271(B) R. Hansen (1) ON LM ITEM 18 WAS 97-269-0001 (2) ADDED NOTE (3) UPDATED REV LEVEL BLOCK	4-26-76	J. Hansen
B		CN440271(C) R. Hansen (1) ON LM, REVISED PER EXTENSIVE ENGR CHANGE (2) ADDED DIM .45 TO PZ 13 (3) RELOCATED COMPONENT BEI (4) DELETED ITEM 37 FROM FD (5) ADDED ARROW FOR CR1 (6) ADDED BALLOONS 39, 95 (7) UPDATED REV LEVEL BLOCK	4-26-76	J. Hansen
C		CN40776(D) B. Hansen (1) ON LM, ITEM NO 5 WAS 972748-0001 (2) ADDED NOTE 2C (3)	3/21/76	J. Hansen
D		CN41813(C) R. Hansen (1) UPDATED REV LEVEL BLOCK	4/11/76	J. Hansen
E		CN419547 (C) J. Hansen (1) UPDATED REV LEVEL BLOCK	9/10/76	J. Hansen
F		CN417301 (E) B. Hansen (1) ON LM, ITEM 32 WAS 972758-0021, 25V CAP (2) UPDATED REV LEVEL BLOCK	9-28-76	J. Hansen
G		CN41968 (C) J. Hansen (1) ITEM 42 WAS 41717-0223 (2) QTY OF ITEM 42 WAS "AR" (3) QTY OF ITEM 44 WAS "AR" (4) UPDATED REV LEVEL BLOCK (5) ADDED TEST PROCEDURE	12-14-76	J. Hansen
H		CN420837 (D) D. Campbell (1) UPDATED REV LEVEL BLOCK	1-27-77	R. Hansen
J		CN418162 (B) R. Hansen (1) ADDED NOTE 3 (2) ADDED 3 37527, 7506 TO NEXT ASSY NO (3) UPDATED REV LEVEL BLOCK	4-14-77	J. Hansen
K		CN419269 (C) R. Hansen (1) UPDATED REV LEVEL BLOCK	6-13-77	J. Hansen
L		CN429018 (E) R. Hansen (1) UPDATED REV LEVEL BLOCK	1-11-78	J. Hansen
M		CN430078 (C) B. Hansen (1) ON-0001 LM, ITEM 16 WAS 972733-0001, ITEM 28 WAS -0082 (2) UPDATED REV LEVEL BLOCK	3-13-78	J. Hansen
N		CN440411 (C) R. Hansen (1) NOTE 3 WAS FOR PWB (945076) REV E (2) UPDATED REV LEVEL BLOCK	8-29-78	E. Dieg
P		CN442330 (E) D. Hansen (1) UPDATED REV LEVEL BLOCK	9-23-78	J. Hansen
R		CN440445 (D) B. Hansen (1) ON LM, ITEM 40 PN WAS 972742-1 (2) UPDATED REV LEVEL BLOCK	9-29-78	J. Hansen
T		CN441358 (C) B. Hansen (1) ON-0001 LM, DELETED ITEMS 1, 7 THRU 23 (2) ON-5001 LM, ADDED ITEMS 1, 7 THRU 23, 46 (3) UPDATED REV LEVEL BLOCK (4) ADDED P/N BLOCK	12-19-78	E. Dieg
U		CN442378 (C) R. Hansen (1) NOTE 1 READ "733 ASR/KSR CONFIGURATION (2) IN EN D-6 ADDED BALLOON 44 (3) IN EN D-5 ADDED KEYING ARROW TO P3 (4) ADDED VIEWS A-A (5) UPDATED REV LEVEL BLOCK	8-20-79	E. Dieg

945075-5001	AUTO-INSERTED PARTS LIST FOR 945075-0001	(REV CONT ZONE D-8)
945075-0001	990 FULL DUPLEX TTY EIA MODULE 300-9600	
PART NO	DESCRIPTION	

QTY	REV	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST						
				990 FULL DUPLEX TTY/EIA MODULE		
				SIZE	CODE IDENT NO	DRAWING NO
					D 96214	345075
				SCALE	1:1	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945075-0001		REV V	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	REF	EA		0945077-9901	LOGIC DIAGRAM-FULL DUPLEX TTY/EIA MODULE						
0003	REF	EA		0945078-9901	TEST BRUC-EULL DUPLEX TTY/EIA MODULE						
0004	REF	EA		0945079-9901	SPECIFIC DIAGN-FULL DUPLEX TTY/EIA MODULE						
0005	00002-000	EA		0533844-0001	EJECTOR, NYLON, MAN-LOCKING, PNB						
0006	00001-000	EA		0222222-7150	NETWORK SWITCH						
0006A					U7						
0024	00002-000	EA		0972947-0045	RES FIX 150 OHM 5% .5 M CARBON FILM	RUM - M-50					
0024A					R1 R6						
0025	00001-000	EA		0972946-0049	RES FIX 220 OHM 5% .25 M CARBON FILM	RUM - R-25					
0025A					R4						
0026	00002-000	EA		0972946-0057	RES FIX 470 OHM 5% .25 M CARBON FILM	RUM - R-25					
0026A					R3 R5						
0027	00001-000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 M CARBON FILM	RUM - R-25					
0027A					R2						
0028	00002-000	EA		0972946-0087	RES FIX 0.2K OHM 5% .25 M CARBON FILM	RUM - M-25					
0028A					R7 R8						
0029	00001-000	EA		0972929-0388	CAP FIX CERAMIC 330 PF 10 X 200 V	WPL - M39014/01-1344					
0029A					L1						
0030	00001-000	EA		0535937-0025	CAP FIX CERAMIC .47 MF 50V 204	ERI - M131-050051-4					
0030A					C2						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 FULL DUPLEX TTY/EIA MODULE 300-9600			
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506			
								PART NUMBER LM945075-0001			
								REV V			

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945075-0001		REV V	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0031	00001-000	EA		0972924-0015	CAP FIX TANT SMD 47 MFD 10 X 20 VOLT	WPL - M39003/1-2295					
0031A					C3						
0032	00013-000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 MF, PNB, -204						
0032A					C4 C5 C6 C7 C8 C9 C10						
0032B					C11 C13 C14 C15 C16 C17						
0033	00001-000	EA		0972929-0365	CAP FIX CERAMIC 27.0 PF 10 X 200 V	WPL - M39014/01-1369					
0033A					C12						
0034	00001-000	EA		0418801-0004	CRYSTAL QUARTZ 4.000 MHZ MC-1870	WPL - CR-0470					
0034A					V1						
0035	00001-000	EA		0972932-0001	DIODE 1N914B	SEE TI- DRAWING					
0035A					CR1						
0036	00001-000	EA		0972057-0001	TRANSISTOR-AST2222 NPN SILICON	TI- -AST2222					
0036A					C1						
0038	00001-000	EA		0972706-0001	CONNECTOR PNB, TOP RT. A. SMD, HUM, FLT, CBL	015912-009-1002H					
0038A					P3						
0039	00001-000	EA		0972708-0001	CONNECTOR, RS-232, PNB HIG.						
0039A					P2						
0040	00028-000	EA		0598864-0001	CONNECTOR, SOCKET PCB	022526-75000-007					
0040A					E1A E1B E2 THRU E27						
0041	00007-000	EA		0972713-0001	PLUG, JUMPER, 1.0L, 0-300 INCH						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 FULL DUPLEX TTY/EIA MODULE 300-9600			
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM945075-0001			
								REV V			

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM945075-0001		REV V	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0042	00000-050	FT		0972437-0005	INSULATION SLEEVING 1/4" HEAT SHRINKABLE	LFS - HI-1056-M-14					
0043	00002-000	EA		0972946-0055	RES FIX 390 OHM 5% .25 M CARBON FILM	RUM - M-25					
0043A					R9 R10						
0044	00000-010	EA		0996069-0003	AMB. SOLID, ENRMPSTC 25# BAG ANAEROBIC	PENSALE-917-0302					
0045	00002-000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2					
0046	00001-000	EA		0945075-5001	AUTO-INSERTED PARTS LIST FOR 945075-0001						
0047	00002-000	EA		0085936-0018	EYELET .121 BARREL GD X.219 LG FLANGE	USH - #SE-47					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 FULL DUPLEX TTY/EIA MODULE 300-9600			
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM945075-0001			
								REV V			

ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		0945076-0001	PM8-FULL DUPLEX TTY/EIA MODULE	
0007	00002.000	EA		0972788-0001	NETWORK, SN74LS11, POSITIVE AND GATE	
0007A					U14, U28	
0008	00003.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N
0008A					U16, U20, U25	
0009	00003.000	EA		0972900-7404	NETWORK SN74LS04N	
0009A					U10, U26, U29	
0010	00003.000	EA		0972749-0001	NETWORK, SN74LS08N	
0010A					U12, U23, U27	
0011	00002.000	EA		0972900-7410	NETWORK SN74LS10N	
0011A					U13, U34	
0012	00001.000	EA		0972750-0001	NETWORK, SN74LS38N	
0012A					U33	
0013	00001.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N
0013A					U41	
0014	00001.000	EA		0972763-0001	NETWORK, SN74LS42N BUZZER	
0014A					U17	
0015	00006.000	EA		0972900-7474	NETWORK SN74LS74N	
0015A					U38, U18, U21, U22, U24, U25	
0016	00001.000	EA		022222-7123	NETWORK SN74123N	

DRAFTSMAN	DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
						AUTO-INSERTED PARTS LIST FOR 945075-0001
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						PART NUMBER LM0945075-5001 REV V

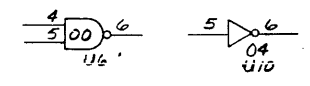
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0016A					U15	
0017	00002.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N	
0017A					U39, U40	
0018	00004.000	EA		022222-7163	NETWORK SN74163N	
0018A					U2, U3, U4, U15	
0019	00002.000	EA		0972688-0001	NETWORK SN74LS164N	
0019A					U9, U11	
0020	00002.000	EA		0972900-7175	NETWORK SN74LS175N	
0020A					U1, U8	
0021	00004.000	EA		0972900-7197	NETWORK SN74LS197N	TI -SN74LS197N
0021A					U5, U6, U27, U36	
0022	00002.000	EA		0538948-0001	NETWORK SN75150P	TI -SN75150P
0022A					U31, U32	
0023	00001.000	EA		0538947-0001	NETWORK SN75154N	TI -SN75154N
0023A					U30	

DRAFTSMAN	DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
						AUTO-INSERTED PARTS LIST FOR 945075-0001
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						PART NUMBER LM0945075-5001 REV V

RESISTOR VALUE	RESISTOR VALUE	RESISTOR VALUE	RESISTOR VALUE
33K	300	E1-E2	E27-E28
75K	1500	E1-E3	E27-E29
LINE PRINTER MODEL 514	500	E1-E4	E27-E30
		E1-E5	E27-E31
		E1-E6	E27-E32
		E1-E7	E27-E33
		E1-E8	E27-E34
		E1-E9	E27-E35
		E1-E10	E27-E36
		E1-E11	E27-E37
		E1-E12	E27-E38
		E1-E13	E27-E39
		E1-E14	E27-E40
		E1-E15	E27-E41
		E1-E16	E27-E42
		E1-E17	E27-E43
		E1-E18	E27-E44
		E1-E19	E27-E45
		E1-E20	E27-E46
		E1-E21	E27-E47
		E1-E22	E27-E48
		E1-E23	E27-E49
		E1-E24	E27-E50
		E1-E25	E27-E51
		E1-E26	E27-E52

- 5. ALL RESISTORS ARE IN OHMS, ±5%, 1/4 WATT.
- 6. ALL CAPACITOR VALUES ARE IN MICROFARADS.

- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES ARE PREFIXED WITH SN74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC'S IS SHOWN AS FOLLOWS:



00 AND 04 = DEVICE TYPE
 4, 5 AND 6 = PIN NUMBERS
 U6 AND U10 = REFERENCE DESIGNATOR

ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	...	...	...
	B	...	...	...
	C	...	...	...
	D	...	...	...
	E	...	...	...
	F	...	...	...
	G	...	...	...
	H	...	...	...

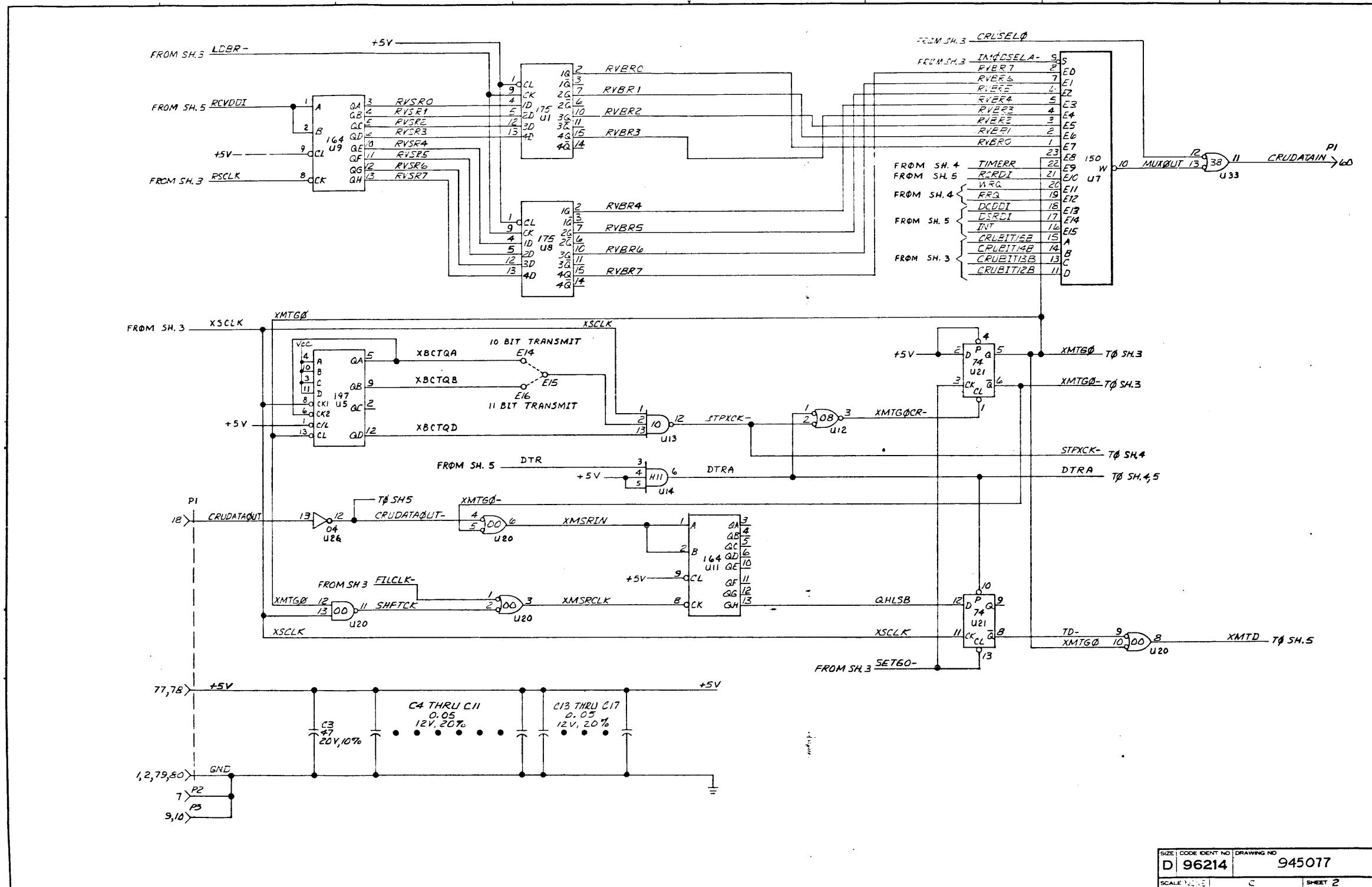
JUMPER CONFIGURATIONS

1. BAUD RATE - 75/110 300 1200 2400 4800 9600
 E1 TO E2 E3 E4 E5 E6 E7
2. DEVICE LOGIC LEVELS - EIA LEVEL TTY LEVEL
 E9 TO E8 E10
3. CODE FORMAT - 10 BIT CODE 11 BIT CODE
 A. RECEIVE E12 TO E11 E13
 B. TRANSMIT E15 TO E14 E16
4. RECEIVE DURING "REQUEST TO SEND" -
 ENABLE RECEIVE DISABLE RECEIVE
 E18 TO E17 E19
5. 110 BAUD RATE - 110 BAUD - ALL OTHER BAUD RATES
 A. E21 TO E22 E20
 B. E23 TO E24 NO JUMPER INSTALLED
6. RTSE OUTPUT - RTSE=DSRE RTSE=RTSE
 LINE PRINTERS ALL OTHER DEVICES
 E26 TO E27 E25

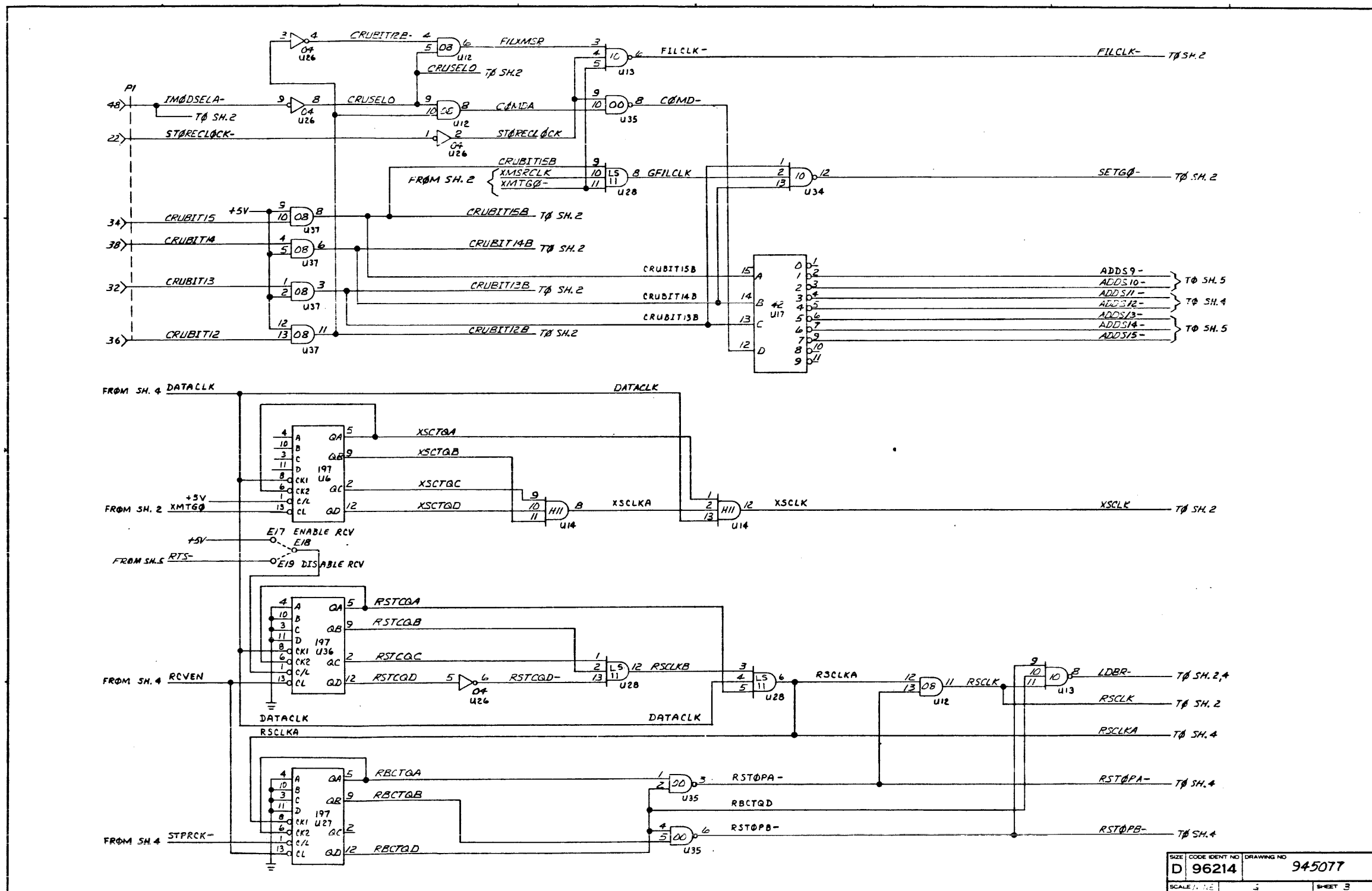
REV STATUS OF SHEETS	REV. H C G A E	2 1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED		PARTS LIST			
REMOVE ALL BURRS AND SHARP EDGES		DIMENSIONS ARE IN INCHES		DATE 11/2/75			
CONCENTRICITY MACHINED DIAMETERS .010 FIR		TOLERANCES ANGLES 90°		CHK C. KEELER 12-17-75			
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING		3 PLACE DECIMALS ±.010		ENGR W. H. HARRIS 2-25-76			
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		2 PLACE DECIMALS ±.02		QA			
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		HOLE TOLERANCE		CONTR NO			
.013 THRU .004		.125 THRU .005		DESIGN ACTIVITY RELEASE			
.125 THRU .001		.251 THRU .005		SIZE CODE IDENT NO DRAWING NO			
.501 THRU .008		.501 THRU .005		D 96214 945077			
.750 THRU .001		1.000 THRU .001		SCALE SHEET 12F5			
NEXT ASSY USED ON APPLICATION							

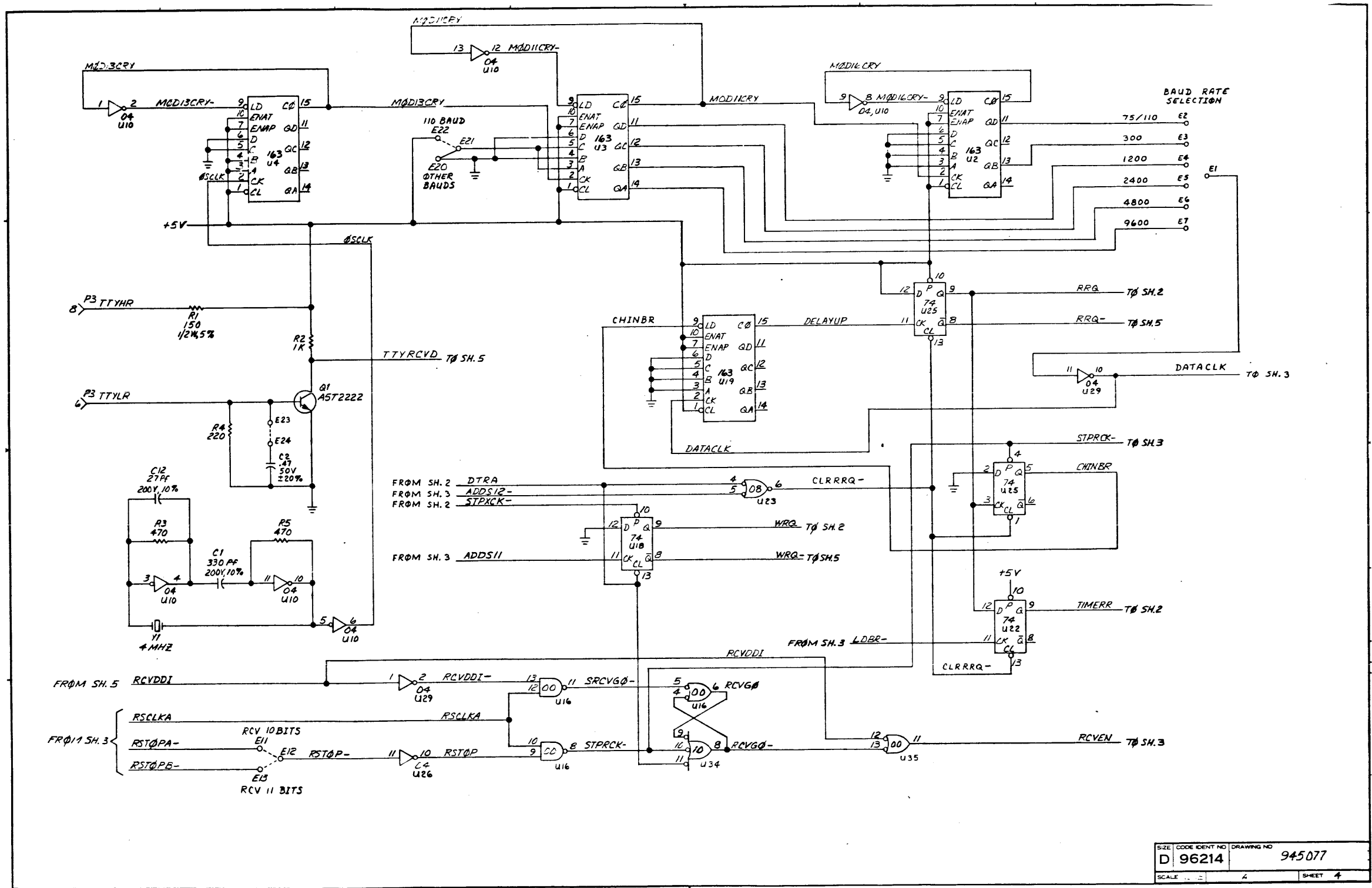
TEXAS INSTRUMENTS
 INCORPORATED
 Equipment Group Dallas, Texas

LOGIC DIAGRAM -
 FULL DUPLEX TTY/EIA
 MODULE

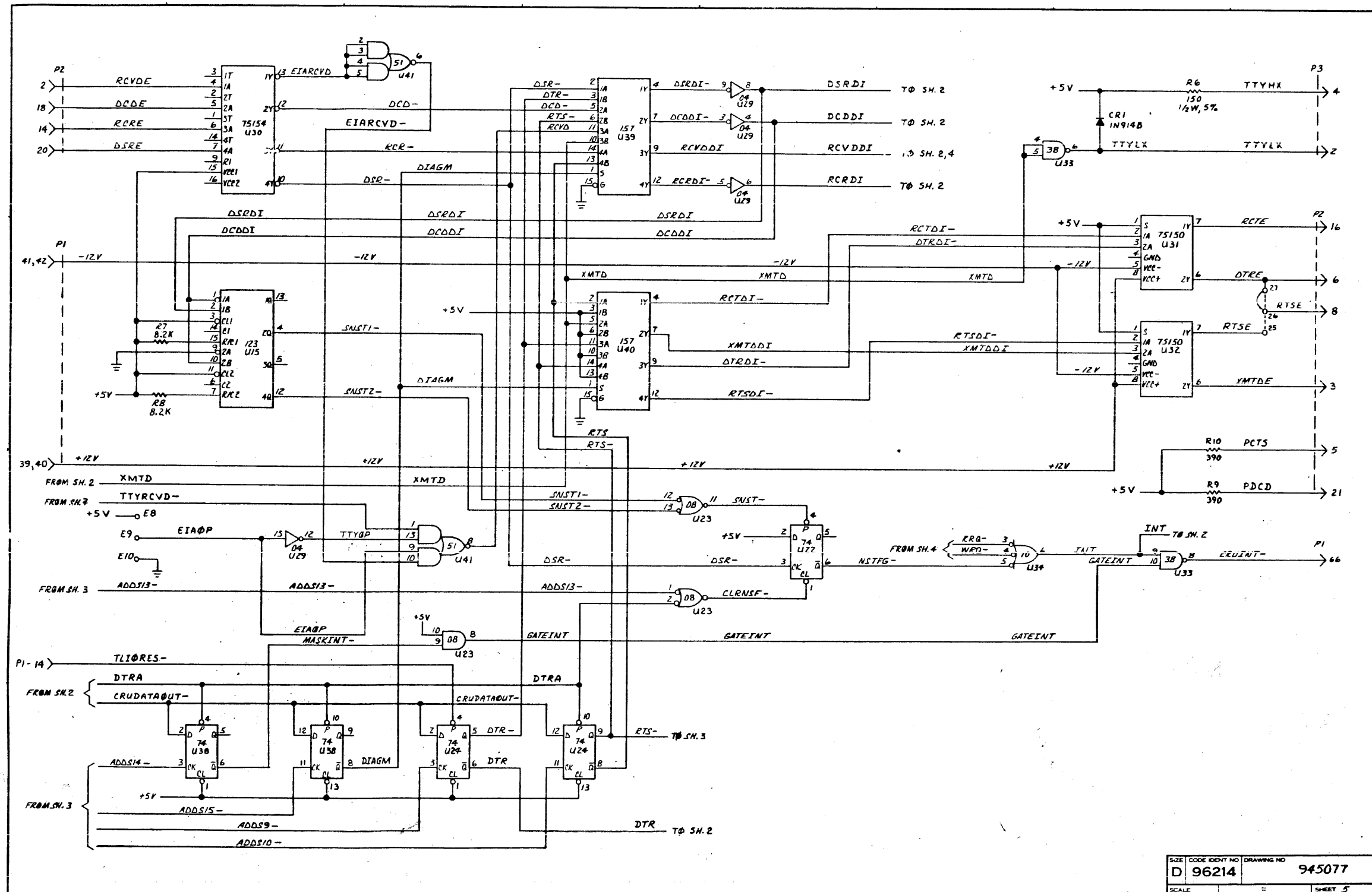


SIZE: D	CODE IDENT NO: 96214	DRAWING NO: 945077
SCALE: NONE	C	SHEET 2





SIZE	CODE IDENT NO	DRAWING NO
D	96214	945077
SCALE		SHEET 4



27-26
For 810

SIZE	CODE IDENT NO	DRAWING NO
D	96214	945077
SCALE		SHEET 5

ITEM NO.	DESCRIPTION	WIRE GAUGE	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	WIRE GAUGE	START STATION	FINISH STATION
1	RED	310 FT			P1-13	P2-2	XMTD			
2	BLK				[5]	[3]	SGND			
3	WHT				P1-12	P2-3	RCVD			
4	BLK				[5]	[3]	SGND			
5	GRN				P1-11	P2-8	DCD (CDET)			
6	BLK				[5]	[3]	SGND			
7	BLU				P1-15	P2-20	DTR			
8	BLK				[5]	[3]	SGND			
9	YEL				P1-10	P2-4	RTS (PIZV)			
10	BLK				[5]	[3]	SGND			
11	BRN						SPARE			
12	BLK	310 FT					SPARE			
13	#22 AWG. WHT	AE			P2-18	P2-21	JUMPER			

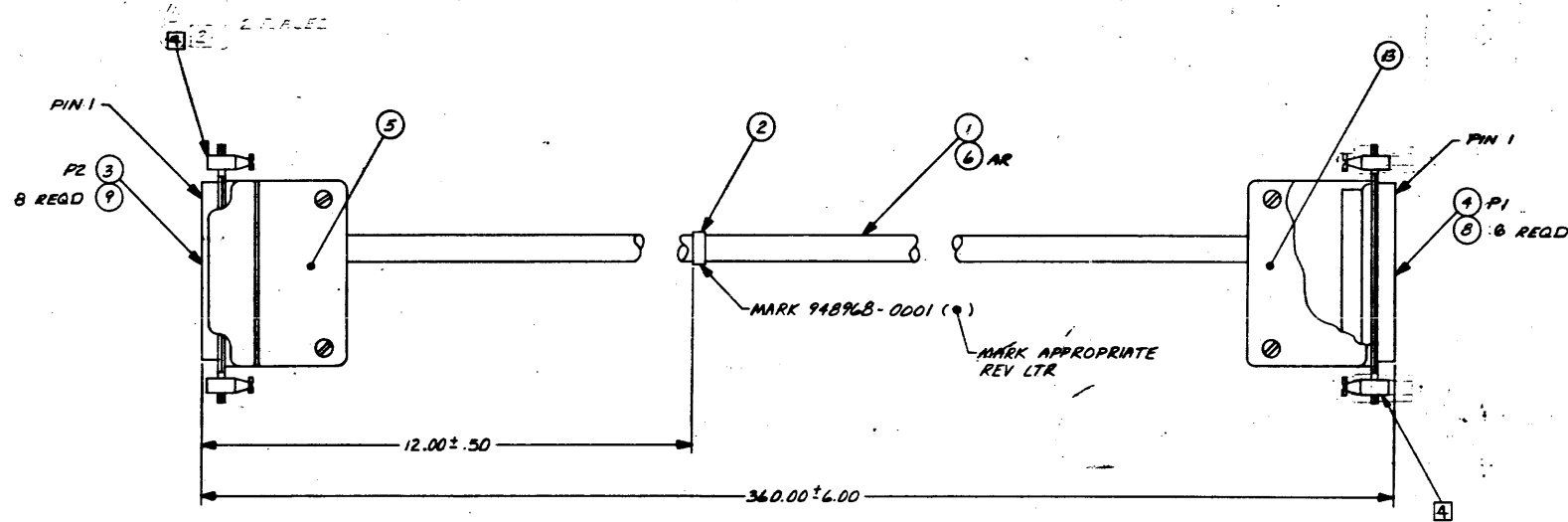
NOTES: CONT.

- 4 INSTALL VENDOR SUPPLIED CLIPS AND SCREWS ON P1 (ITEM 4) AND P2 (ITEM 3). CLIPS AND SCREWS ARE PARTS OF ITEM 5 E13 (CONN HOODS).
- 5 ITEM 101 IN -0001 LM CONSISTS OF BULK CABLE ASSY MATERIAL.

NOTES:

- 1 REMOVE HOOD WHEN ITEM 5 IS ON P2 WITH ITEM 7.
- 2 REMOVE SCREW FROM ITEM 10 LAY ITEM 11 IN THROAT OF ITEM 10 AND SLIDE ITEM 10 INTO ITEM 3 SO THAT ITEM 11 IS BETWEEN ITEM 3 AND ITEM 10. INSERT SCREW WITH ITEM 9 AND TIGHTEN THE SCREW SO THAT IT COMES THROUGH ITEM 10 AND PRESSURES FROM ITEM 5 IS SHOWN. DISCARD CONNECTOR SECURING CONNS AND SCREWS PROVIDED WITH ITEM 5.
- 3 CONNECT ALL SGND WIRES TO P1 AND P2-7 AND INSULATE WITH ITEM 12.

ZONE	LTR	REVISIONS	DATE	APPROVED
A		CN 911974 (C) LTR (1) REVISED DWG + L/M PER EXTENSIVE ENGR CHANGE (2) DWG WAS 6U	8/17/76	W. Allen
B		CN 414338 (E) LTR (1) DELETED NOTE 1 (2) LM ITEM 7 DELETED (3) LM ITEM 12 WAS 41717-6	3/14/77	Printz
C		CN 421297 (C) LTR (1) REVISED PER EXTENSIVE ENGR CHANGES	3-31-77	Eden
D		CN 420380 (C) LTR (1) ON LM DELETED ITEMS 10 AND 11, ITEM 8 QTY WAS 7, ITEM 9 QTY WAS 9 (2) ADDED FLAG NOTE 4 (3) REVISED PICTORIAL OF P1 CONN TO AGREE WITH P2 (4) DELETED NOTE 2	4/24/77	W. Allen
E		LI 427566 (C) G. M. H. (1) ADDED ITEM 15 TO LM	1-23-78	J. R. B.
F		CN 450804 (C) LTR (1) FLAG NOTE 3 WAS CONNECT ALL SGND WIRES TO P1-7 OR P2-7 AND INSULATE WITH ITEM 12	4/23/79	E. D. J.
G		CN 432542 (C) LTR (1) CREATED -5001 LM (2) ADDED NOTE 5 (3) ADDED PN BLOCK (4) ADDED ITEM 101 TO -0001 LM	11-30-79	J. R. B.



948968-5001	BULK CABLE ASSY MATERIAL FOR -0001
948968-0001	CABLE ASSY, EIA 743
PART NUMBER	DESCRIPTION

QTY REQD	ITEM NO.	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION
1	13		539903-0005	HOOD ASSY	
AR	12		41717-0006	INSULATION SLEEVING	
2	11		41461-0003	PACKING	
2	10		406768-0001	ADAPTER, CONNECTOR	
9	9		539430-0003	CONTACT, PIN	
7	8		539430-0004	CONTACT, SOCKET	
2	7		406769-0001	SCREW, SPECIAL	
AR	6		538397-3999	WIRE HOOKUP	
1	5		539903-0001	HOOD ASSY	
1	4		539409-0004	CONNECTOR 15 PIN	
1	3		539409-0005	CONNECTOR 25 PIN	
1	2		235463-0006	STRAP	
3	1		972444-0001	CABLE MULTI CONDUCTOR	UL

PROCESSES:
1. MARK PER F-100, METHOD III, CLASS 12, COLOR BLACK, TYPE 3

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED		PARTS LIST	
REMOVE ALL BURRS AND SHARP EDGES		DIMENSIONS ARE IN INCHES		DATE: 7/6/76	
CONCENTRICITY MACHINED DIAMETERS .010 P1		TOLERANCES		DRAWN: [Signature]	
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING		ANGLE ±1°		CHK: [Signature]	
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		3 PLACE DECIMALS 2.010		ENGR: [Signature]	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		2 PLACE DECIMALS 2.02		APPV: [Signature]	
HOLE TOLERANCE		NEXT ASSY USED ON		CONTR NO	
.013 +.004		7566		DESIGN ACTIVITY RELEASE	
.125 -.001		APPLICATION		DATE: 7/6/76	
.001 +.008				SCALE: 1/16" = 1"	
.750 -.001				SHEET	

TEXAS INSTRUMENTS	
CABLE ASSY, EIA 743	
SIZE: D	CODE IDENT NO: 96214
DRAWING NO: 948968	

NOTES: UNLESS OTHERWISE SPECIFIED:
 1 METRIC (S1) GENERAL TOLERANCE
 ONE PLACE = 0.5mm (.02 INCHES)
 TWO PLACE = 0.25mm (.010 INCHES)
 2. INTERNAL WIRE COLOR ASSIGNMENT
 OPTIONAL
 3 CUT WIRE FLUSH WITH OUTER JACKET

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	WIRE # ITEM NO.
1	NO. 22 AWG	AR	MIT DATA	P2-3	P1-2		3
2	REC'D	AR	REC'D DATA	-2	-3		
3	REC'D	AR	R.T.S.	-8	-9		
4	REC'D	AR	D.S.R.	-20	-6		
5	REC'D	AR	GND	-7	-7		
6	REC'D	AR	D.C.D.	-18	-8		
7	REC'D	AR	D.T.R.	-6	-20		
8	REC'D	AR	RING	P2-14	P1-22		
9							
10	NO. 22 AWG	AR					3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CR442386 (E) FROM 110N-1 & 2 LM; ITEM 3 WAS -16 (2) ZN D-6, DESCRIPTION W/L DELETED COLOR DESIGS, ADDED W/L 9 & 10 (3) ADDED NOTES 2 & 3	3-24-79	J.R. [Signature]

CONVERSION CHART	
INCHES	MM [1]
2.00 ± 1.00	5.08 ± 2.54
4.00 ± 2.00	15.24 ± 5.08
12.00 ± 2.00	30.48 ± 5.08
120.00 ± 6.00	304.80 ± 15.24
360.00 ± 6.00	914.40 ± 15.24

SEE METRIC (S1) CONVERSION CHART FOR EQUIVALENT DIMENSIONS

THIRD ANGLE PROJECTION

2265151-0002	CABLE ASSY, TTY/EIA MOD TO EXT MODEM, 10FT	120.00 ± 6.00
2265151-0001	CABLE ASSY, TTY/EIA MOD TO EXT MODEM, 30FT	360.00 ± 6.00
PART NUMBER	DESCRIPTION	DIM A

QTY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION	NOTES

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL	NOTES
2	MARK	100-02	21	HGT. .12, COLOR WHITE	
1	MARK	100-07	78	COLOR BLACK, TYPE 6	
	PROCESS			CLASSIFICATION	

PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE TI DRAWING 729487

PARTS LIST		DATE		DRAWING NO.	
2265150	7055	7/11/78	7/11/78	D96214	226 5151

TEXAS INSTRUMENTS
 INCORPORATED
 Dallas, Texas

CABLE ASSEMBLY, TTY/EIA
 MODULE TO EXTERNAL MODEM

SCALE: 1:1

SHEET

TEXAS INSTRUMENTS INCORPORATED		DATE 03/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2265151-0001		REV A	
ITEM FROM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0002.000	EA		0539903-0001	HOOD, COMM 25 PIN WITH RETAINERS	AMP - 20647B-3					
0002	0006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98					
0003	0003.000	FT		0972444-0001	CABLE, 10COND 22AWG UL LISTED						
0004	0002.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0004A					P1 P2						
0005	00016.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0006	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						

DATE	DESIGN ENGINEER	DATE	TITLE
3-15-79			CABLE ASSY. TTY/EIA MOD TO EXT MODEM, 30FT
DATE	PROJECT ENGINEER	DATE	RELEASED
			7055
DATE	PROJECT ENGINEER	DATE	RELEASED
DATE	PROJECT ENGINEER	DATE	RELEASED
DATE	PROJECT ENGINEER	DATE	RELEASED

TEXAS INSTRUMENTS INCORPORATED		DATE 03/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2265151-0002		REV A	
ITEM FROM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0002.000	EA		0539903-0001	HOOD, COMM 25 PIN WITH RETAINERS	AMP - 20647B-3					
0002	0006.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98					
0003	00010.000	FT		0972444-0001	CABLE, 10COND 22AWG UL LISTED						
0004	0002.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0004A					P1 P2						
0005	00016.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0006	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						

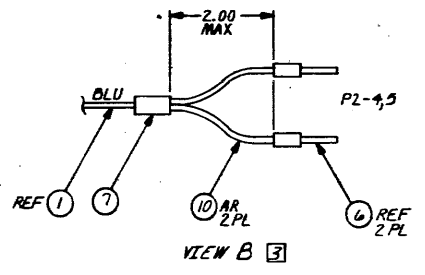
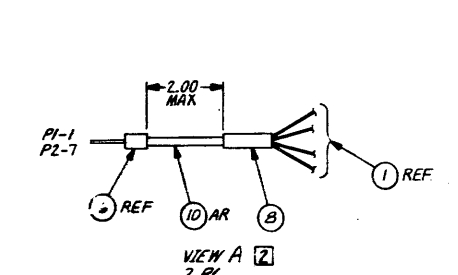
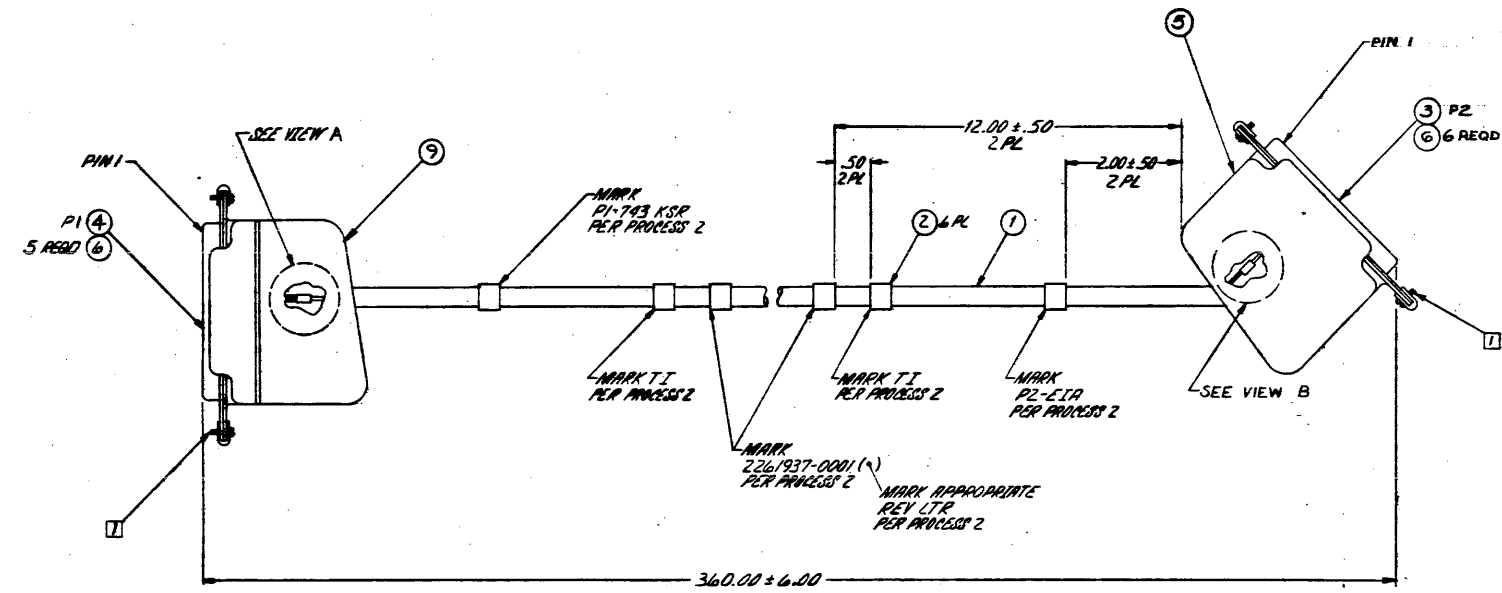
DATE	DESIGN ENGINEER	DATE	TITLE
			CABLE ASSY. TTY/EIA MOD TO EXT MODEM, 10FT
DATE	PROJECT ENGINEER	DATE	RELEASED
DATE	PROJECT ENGINEER	DATE	RELEASED
DATE	PROJECT ENGINEER	DATE	RELEASED

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. INSTALL VENDOR SUPPLIED CLIPS AND SCREWS ON P1 (ITEM 4) AND P2 (ITEM 3) CLIPS AND SCREWS ARE PARTS OF ITEM 5 & 9 (CONN HOODS)
 2. CONNECT ALL GND WIRES TO P1-1 AND P2-7 AS SHOWN, USING PROCESS 1.

3. CONNECT WIRE NO. 7 OF ITEM 1 TO P2-4 AND P2-5 AS SHOWN, USING PROCESS 1.
 4. ITEM 101 IN -0001 L/M CONSISTS OF BULK CABLE ASSY MATL

ITEM NO.	DESCRIPTION	QTY	UNIT	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	LM ITEM NO.
1	NO 22 RED					P1-7	P2-5	INTD → PWD	1
2	BLK					P1-1	P2-7	GND	
3	WHT					P1-12	P2-2	PWD → INTD	
4	BLK					P1-7	P2-7	GND	
5	GRN					P1-7	P2-6	DTR → DSR	
6	BLK					P1-1	P2-7	GND	
7	BLU					P1-11	P2-4	GND → RTB	
8	BLK					P1-1	P2-7	GND	
9	NO 22, WHT					P2-9	P2-5	PTS → CTS	10

REV	DESCRIPTION	DATE	APPROVED
A	448201 (C) 9. Show (1) CHANGED DRAWING (2) DELETED PROCESS 3 (3) CHANGED VIEW 'B' TO 'A' IN ZONE C-7 & VIEW 'A' TO 'B' IN ZONE B-4	1-12-79	E. King
B	CN 448234 (C) 2. Change (1) UNALLOWED 3, 5 & 3 WERE 3, 5, 9 & 4 RESP (2) QTY OF ITEM 6 WAS 12	3-22-79	E. King
C	CN 448239 (B) 2. Change (1) IN NOTE 2	3-22-79	E. King
D	CN 448114 (C) 2. Add (1) INCREASING D-5001 (2) ADDED ITEM 101 TO EXISTING L/M (3) ADDED FLAG NOTE 4 (4) ADDED DIM BLOCK TO DWG	DEC 79	E. King



2261937-5001	BULK CABLE ASSY MATL FOR -0001
2261937-0001	CABLE ASSY 990 EIA TO 743 KSR
PART NUMBER	DESCRIPTION

2	MARK	100-07	712	CLR BLK, TYPE 6				
1	SLDR	341-03	00	USE ITEMS 7 & 8				2, 3
SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL	CLASSIFICATION	NOTES		

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
UNLESS OTHERWISE SPECIFIED: • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±1°, 3 PLACE DECIMALS = .010, 2 PLACE DECIMALS = .02 • INTERPRET DRAWING PER MIL-D-1000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS .010 FIM • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHETICAL INFO FOR REF ONLY					
HOLE TOLERANCE: .013 - .004 THRU - .004 THRU - .001 .125 - .001 THRU - .001 THRU - .001 .501 - .008 THRU - .010 THRU - .012 .751 - .001 THRU - .001 THRU - .001					
2261940	7046				
APPLICATION					
TEXAS INSTRUMENTS INCORPORATED DALLAS, TEXAS CABLE ASSY 990 EIA TO 743 KSR				D96214 22-1937	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2261937-0001		REV D	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
J003	00001.000	EA		0539469-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1			
J003A					P2				
J004	00001.000	EA		0539409-0004	CONNECTOR, RCPT 15 PINS	AMP -205205-1			
J004A					P1				
J005	00001.000	EA		0539903-0001	HOOD, CONN 25 PIN WITH RETAINERS	AMP - 206478-3			
J009	00001.000	EA		0539903-0005	HOOD, CONN 15 PIN WITH RETAINERS	AMP -206478-2			
J101	00001.000	EA		2261937-5001	BULK CABLE ASSEMBLY MATERIAL FOR-J001				

DATE	BY	CHKD	DATE	DESIGN ENGINEER	DATE	TITLE	
	J.R.H.		10-31-79			CABLE ASSY, 990 EIA TO 743 KSR	
DATE	APPROVED	DATE	DESIGNED	DATE	PROJECT NO.		
					7096		
						PART NUMBER LM2261937-0001	REV D

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2261937-5001		REV D	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
J001	00001.000	FT		0800563-3104	CABLE #22 AWG BLACK PAIRED WITH BLUE	078903-9746L			
J002	00000.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	WPL-MS-3368-1-98			
J006	00011.000	EA		0539433-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST			
J007	00001.000	EA		0530171-0004	SLEEVE, .625LG .1100IA, LOW TEMP, CLEAR	008795-0-142-50			
J008	00002.000	EA		0530171-0005	SLEEVE, .625LG .1750IA, LOW TEMP, CLEAR	008795-0-142-51			
J010	00000.500	FT		2210012-3999	WIRE, MHT, UL 1429, 19X34, 22AWG	090484-XVB193409P			

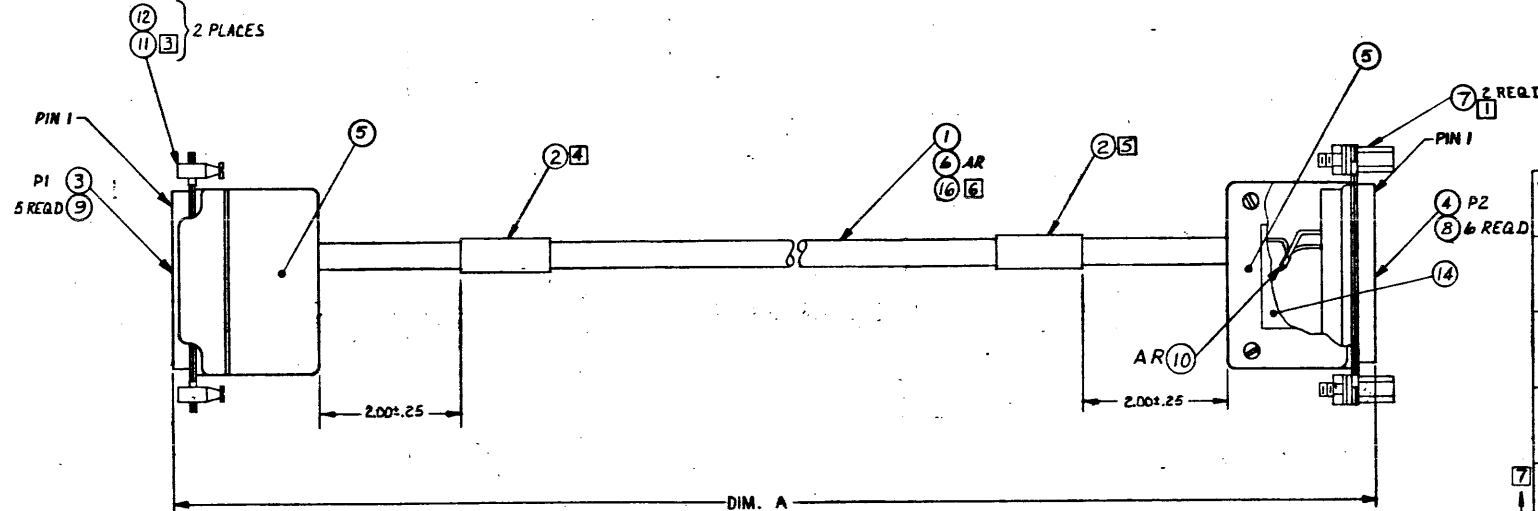
DATE	BY	CHKD	DATE	DESIGN ENGINEER	DATE	TITLE	
						BULK CABLE ASSEMBLY MATERIAL FOR-0001	
DATE	APPROVED	DATE	DESIGNED	DATE	PROJECT NO.		
						PART NUMBER LM2261937-5001	REV D

ITEM NO	DESCRIPTION	TOTAL LENGTH	START STATION	STOP STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	ITEM 16
1	BK				P1-6	P2-6	DTR	I
2	WHT				P1-20	P2-20	DSRE	I
3	BK				P1-7	P2-7	SG	I
4	WHT				P1-3	P2-3	XMTDE	I
5	SHIELD				P1-1	P2-1	PROTECTIVE BND	I
6	NZ22 WHT				P2-6	P2-B	DCDE	6

NOTES:

1. REPLACE HDW SUPPLIED WITH ITEM 5 ON P2 WITH ITEM 7
2. CRAMP ITEM 6 TO ITEM 8 AND INSERT IN P2-6 AND P2-B. JOIN PIGTAILS WITH ITEM 1 AND SOLDER. COVER JOINT WITH ITEM 10
3. REMOVE SCREW FROM ITEM 11. LAY ITEM 12 IN THIMBLE OF ITEM 11 AND SLIDE ITEM 11 ONTO ITEM 3 SO THAT ITEM 12 IS BETWEEN ITEM 3 AND ITEM 11. INSERT SCREW INTO ITEM 11 AND TURN THE SCREW SO THAT IT COMES THROUGH ITEM 11 AND PROTRUDES FROM ITEM 3 AS SHOWN. DISCARD CONNECTOR SECURING CLIPS AND SCREWS PROVIDED WITH ITEM 5.
4. MARK PER 2265070 LINE 4 TEXT "CPU END (LENGTH)"
5. MARK PER 2265070 LINE 4 TEXT "PRINTER END (LENGTH)"
6. BEFORE LUGGING USE ITEM 16 TO INSULATE SHIELD OF CABLE (ITEM 1) AT BOTH ENDS
7. ITEM 16 IN -0010, -0020, -0030, -0040, -0050, -0060, -0070, -0080, -0090, -0100, -0200, -0300, -0400, -0500, -0600, -0700, -0800, -0900, & -1000 LMS CONSIST OF BULK CABLE ASSY MATERIAL

ZONE LTR	DESCRIPTION	DATE	APPROVED
A	CN 432559 (D) 1. A... (1) REVISED (2) ADDED LITE 3 (3) ADDED ITEM 5 11/2 & 13 TO LMS - 0300, -0500, -0500 & -0300 (4) ADDED -2000 L.M.	11/17/75	Kelehan
B	CN 432559 (D) 1. A... (1) CREATED NEW LMS FOR -0300, -0500, -0500, -0040, -0050, -0060, -0070, -0080 & -0090	11/17/75	Kelehan
C	CN 412635 (E) 10. Rev 11 L.M. ITEM 1 WAS -0001	12/1/76	Kelehan
D	CN 419531 (D) 7... (1) ON ALL L.M. QTY OF ITEM 2 WAS 1 (2) ADDED ITEM 14 TO ALL L.M. 3. ITEM 10 WAS 4 (1) 117-TR ON ALL L.M. (4) ADDED NEW CABLE MARKS	10-1-76	J.R. Kelly
E	CN 426517 (C) 1. A... (1) ALL DATA NOT DELETED ITEM 13 & ADDED ITEM 15	2-6-78	J.R. Kelly
F	CN 448376 (D) 7... (1) REVISED PER EXTENSIVE ENGRG CHANGES	1-30-80	J.R. Kelly
G	CN 443263 (C) 7... (1) CREATED -5010, -5020, -5050, -5100, & -5999 L.M.'S (2) ADDED ITEM 10 TO -0010, -0020, -0050, -0100 & -1000 L.M'S (3) ADDED FLAGNOTE 7 (4) ADDED P/N ELDEK	1-30-80	J.R. Kelly
H	CN 458050 (C) 10... (1) REVISED PER EXTENSIVE ENGRG CHANGES	1-30-80	J.R. Kelly



DASH NO	DIM. A
-1000	100FT ± 60IN
-0900	90FT ± 60IN
-0800	80FT ± 60IN
-0700	70FT ± 60IN
-0600	60FT ± 60IN
-0500	50FT ± 60IN
-0400	40FT ± 60IN
-0300	30FT ± 24IN
-0200	20FT ± 24IN
-0100	10FT ± 12IN
-0090	90FT ± 10IN
-0080	80FT ± 9IN
-0070	70FT ± 8IN
-0060	60FT ± 7IN
-0050	50FT ± 6IN
-0040	40FT ± 6IN
-0030	30FT ± 6IN
-0020	20FT ± 6IN
-0010	10FT ± 6IN

PART NUMBER	DESCRIPTION
975056 - 5999	BULK CABLE ASSY MATL FOR -1000
- 5900	-0900
- 5800	-0800
- 5700	-0700
- 5600	-0600
- 5500	-0500
- 5400	-0400
- 5300	-0300
- 5200	-0200
- 5100	-0100
- 5090	-0090
- 5080	-0080
- 5070	-0070
- 5060	-0060
- 5050	-0050
- 5040	-0040
- 5030	-0030
- 5020	-0020
- 5010	-0010
975056 - 1000	BULK CABLE ASSY MATL FOR -0010
- 0900	CABLE ASSY, EXTN, EIA LINE PRINTER, 100FT
- 0800	90FT
- 0700	80FT
- 0600	70FT
- 0500	60FT
- 0400	50FT
- 0300	40FT
- 0200	30FT
- 0100	20FT
- 0090	100FT
- 0080	90FT
- 0070	80FT
- 0060	70FT
- 0050	60FT
- 0040	50FT
- 0030	40FT
- 0020	30FT
- 0010	20FT
975056 - 0010	CABLE ASSY, EXTN, EIA LINE PRINTER, 10FT

PROCESSES:

- 1. MARK PER F-108, METHOD III CLASS 12.
- 2. SOLDER PER F-127, METHOD I

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES		DIMENSIONS ARE IN INCHES	
CONCENTRICITY MACHINED DIAMETERS .010 FIR		TOLERANCES ANGLES ± 1°	
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING		3 PLACE DECIMALS ±.010	
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		2 PLACE DECIMALS ±.005	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		MATERIAL	
HOLE TOLERANCE		CONTR NO	
.013 +.004	.125 +.006	DESIGN ACTIVITY RELEASE	
.125 +.007	.250 +.008	DATE 11-22-74	
.250 +.009	.500 +.010	DRAWN BY Kelehan 11/17/75	
.750 +.011	1.000 +.012	CHECKED BY J.R. Kelly 11/17/75	
1.000 +.013	1.000 +.015	APPROVED BY J.R. Kelly 11-22-74	
		SCALE NONE	

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0050		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5050	BULK CABLE ASSEMBLY MATERIAL FOR -0050						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 50FT											
APP'D -MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0975056-0050 H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0060		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5060	BULK CABLE ASSEMBLY MATERIAL FOR -0060						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 60FT											
APP'D -MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0975056-0060 H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0070		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5070	BULK CABLE ASSEMBLY MATERIAL FOR -0070						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 70FT											
APP'D -MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0975056-0070 H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0080		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5080	BULK CABLE ASSEMBLY MATERIAL FOR -0080						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 80FT											
APP'D -MFG DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0975056-0080 H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0090		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5090	BULK CABLE ASSEMBLY MATERIAL FOR -0090						
DRAFTSMAN: _____ DATE: _____ CDD DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: CABLE ASSY, EXTN, EIA LINE PRINTER, 90FT APPD. MFG: _____ DATE: _____ APPD. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO: _____ PART NUMBER: LM 0975056-0090 REV: H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0100		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5100	BULK CABLE ASSEMBLY MATERIAL FOR -0100						
DRAFTSMAN: _____ DATE: _____ CDD DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: CABLE ASSY, EXTN, EIA LINE PRINTER, 100FT APPD. MFG: _____ DATE: _____ APPD. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO: _____ PART NUMBER: LM 0975056-0100 REV: H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0200		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	PEF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5200	BULK CABLE ASSEMBLY MATERIAL FOR -0200						
DRAFTSMAN: _____ DATE: _____ CDD DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: CABLE ASSY, EXTN, EIA LINE PRINTER, 200FT APPD. MFG: _____ DATE: _____ APPD. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO: _____ PART NUMBER: LM 0975056-0200 REV: H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0300		REV H	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - D20419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5300	BULK CABLE ASSEMBLY MATERIAL FOR -0300						
DRAFTSMAN: _____ DATE: _____ CDD DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: CABLE ASSY, EXTN, EIA LINE PRINTER, 300FT APPD. MFG: _____ DATE: _____ APPD. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO: _____ PART NUMBER: LM 0975056-0300 REV: H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0400		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5400	BULK CABLE ASSEMBLY MATERIAL FOR -0400						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 600FT											
APPRO. MFG DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0975056-0400 H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0500		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5500	BULK CABLE ASSEMBLY MATERIAL FOR -0500						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 500FT											
APPRO. MFG DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0975056-0500 H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0600		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5600	BULK CABLE ASSEMBLY MATERIAL FOR -0600						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 600FT											
APPRO. MFG DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0975056-0600 H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-0700		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0003A					P1						
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0004A					P2						
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2					
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2					
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419					
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR. 056ID +275 F						
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE						
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1						
0101	00001.000	EA		0975056-5700	BULK CABLE ASSEMBLY MATERIAL FOR -0700						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CABLE ASSY, EXTN, EIA LINE PRINTER, 700FT											
APPRO. MFG DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0975056-0700 H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER	REV
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1			
0003A					P1				
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1			
0004A					P2				
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2			
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2			
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419			
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F				
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE				
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1				
0101	00001.000	EA		0975056-5800	BULK CABLE ASSEMBLY MATERIAL FOR -0800				

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, EXTN, EIA LINE PRINTER, 800FT		
APP'D MFG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
							LM 0975056-0800	H	

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER	REV
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1			
0003A					P1				
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1			
0004A					P2				
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2			
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2			
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419			
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F				
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE				
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1				
0101	00001.000	EA		0975056-5900	BULK CABLE ASSEMBLY MATERIAL FOR -0900				

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, EXTN, EIA LINE PRINTER, 900FT		
APP'D MFG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
							LM 0975056-0900	H	

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER	REV
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0003	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1			
0003A					P1				
0004	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1			
0004A					P2				
0005	00002.000	EA		2210305-0003	HOOD, STRAIN RELIEF, 45/180 DEG., 25 POS	000779-2-206478-2			
0007	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - 020418-2			
0011	00002.000	EA		0406768-0001	ADAPTER, CONNECTOR LOCKING .547X.250	CIE - 020419			
0012	00002.000	EA		0411161-0003	PACKING, PREFORMED HYDR.056ID +275 F				
0014	00001.000	EA		0962571-0005	PLATE, ID, EDP CABLE				
0015	REF	EA		0941915-9901	TEST PROCEDURE, OMNI INTERFACE NO. 1				
0101	00001.000	EA		0975056-5999	BULK CABLE ASSEMBLY MATERIAL FOR -1000				

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, EXTN, EIA LINE PRINTER, 1000FT		
APP'D MFG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
							LM 0975056-1000	H	

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER	REV
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00010.000	FT		0539883-0002	CABLE 4 COND 25MILDED & 2UNSHIELD INSUL				
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	085400-SLPF-19319-4			
0006	00000.500	FT		2210012-3999	WIRE, MHT, UL 1429, 19X34, 22AWG	090484-1V81934U9P			
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST			
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST			
0010	00000.083	FT		0972146-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-P0135125C1/16			
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC	003890-HT-105C-10			

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0010		
APP'D MFG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
							LM 0975056-5010	H	

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5020		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00020.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	003890-PO135125C1/16*					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0020											
APPD. MFG DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. DATE PART NUMBER LM 0975056-5020 REV H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5030		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00030.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	003890-PO135125C1/16*					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0030											
APPD. MFG DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. DATE PART NUMBER LM 0975056-5030 REV H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5040		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00040.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	003890-PO135125C1/16*					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0040											
APPD. MFG DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. DATE PART NUMBER LM 0975056-5040 REV H											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5050		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00050.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	003890-PO135125C1/16*					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0050											
APPD. MFG DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. DATE PART NUMBER LM 0975056-5050 REV H											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5100		REV H		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00100.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPF-19319-4				
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P				
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST				
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST				
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16				
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC	003890-HT-105C-10				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
APPROV. MFG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
							BULK CABLE ASSEMBLY MATERIAL FOR -0100			
							PART NUMBER LM 0975056-5100			
							REV H			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5200		REV H		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00200.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPF-19319-4				
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P				
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST				
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST				
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16				
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC	003890-HT-105C-10				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
APPROV. MFG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
							BULK CABLE ASSEMBLY MATERIAL FOR -0200			
							PART NUMBER LM 0975056-5200			
							REV H			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5300		REV H		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00300.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPF-19319-4				
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P				
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST				
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST				
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16				
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC	003890-HT-105C-10				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
APPROV. MFG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
							BULK CABLE ASSEMBLY MATERIAL FOR -0300			
							PART NUMBER LM 0975056-5300			
							REV H			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5400		REV H		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00400.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL					
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPF-19319-4				
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P				
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST				
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST				
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16				
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC	003890-HT-105C-10				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
APPROV. MFG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
							BULK CABLE ASSEMBLY MATERIAL FOR -0400			
							PART NUMBER LM 0975056-5400			
							REV H			

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975056-5500		REV H	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00500.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	003890-P0135125C1/16					
0010	00000.083	FT		0972146-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0500				
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0975056-5500 H				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975056-5600		REV H	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00600.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	003890-P0135125C1/16					
0010	00000.083	FT		0972146-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0600				
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0975056-5600 H				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975056-5700		REV H	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00700.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	003890-P0135125C1/16					
0010	00000.083	FT		0972146-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						

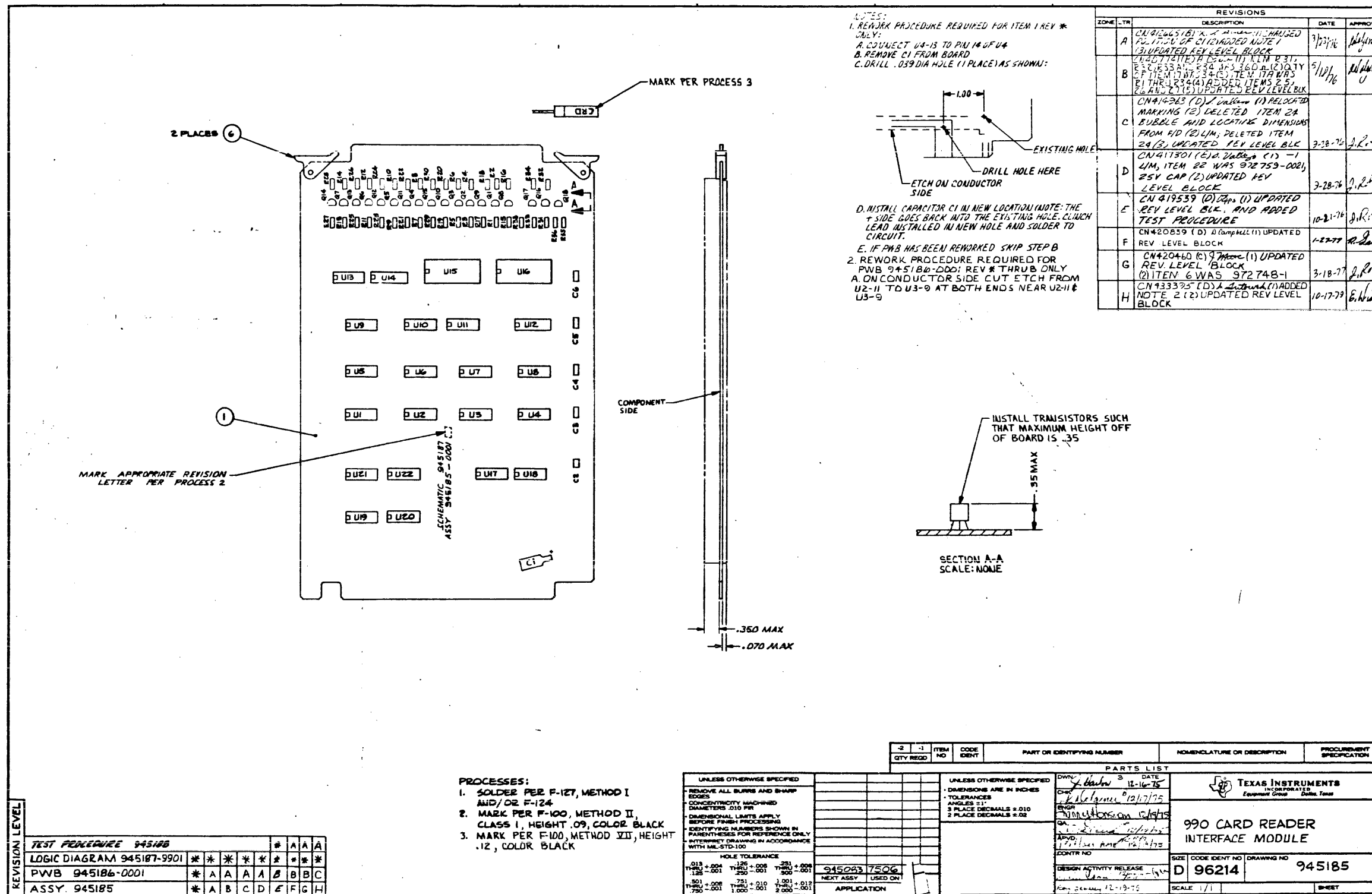
DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0700				
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0975056-5700 H				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0975056-5800		REV H	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00800.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & ZUNSHIELD INSUL	085480-SLPF-19319-4					
0002	00002.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	090484-XVB1934U9P					
0006	00000.500	FT		2210012-3999	WIRE, WHT, UL 1429, 19X34, 22AWG	AMP -205201-3 ST					
0008	00006.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0009	00005.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	003890-P0135125C1/16					
0010	00000.083	FT		0972146-0004	TUBING, .020THK X 1/8 HT SHRINKABLE .125ID	003890-HT-105C-10					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0800				
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0975056-5800 H				

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5900		REV H			
DATE 11/20/79											
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00900.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL						
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPF-19319-4					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC	003890-HT-105C-10					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							BULK CABLE ASSEMBLY MATERIAL FOR -0900				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975056-5900			REV H

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0975056-5999		REV H			
DATE 11/20/79											
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	01000.000	FT		0539883-0002	CABLE 4 COND 2SHIELDED & 2UNSHIELD INSUL						
0002	00002.000	EA		2210317-0001	LABEL,BLANK,CABLE MARKER	085480-SLPF-19319-4					
0006	00000.500	FT		2210012-3999	WIRE,WHT,UL 1429, 19X34, 22AWG	090484-XVB1934U9P					
0008	00006.000	EA		0539430-0004	CONTACT,SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST					
0009	00005.000	EA		0539430-0003	CONTACT,PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST					
0010	00000.083	FT		0972146-0004	TUBING,.020THK X 1/8 HT SHRINKABLE .125ID	003890-PO135125C1/16					
0016	00000.125	FT		0972436-0034	INSUL SLVG, SZ 2" .106 ID .016 THK PVC	003890-HT-105C-10					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							BULK CABLE ASSEMBLY MATERIAL FOR -1000				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0975056-5999			REV H



2 PLACES (Callout 6)

MARK PER PROCESS 3 (Callout 4)

MARK APPROPRIATE REVISION LETTER PER PROCESS 2 (Callout 1)

SCHEMATIC 945185-001

COMPONENT SIDE

.350 MAX

.070 MAX

1.00

EXISTING HOLE

DRILL HOLE HERE

ETCH ON CONDUCTOR SIDE

INSTALL TRANSISTORS SUCH THAT MAXIMUM HEIGHT OFF BOARD IS .35

.35 MAX

SECTION A-A SCALE: NONE

REVISION LEVEL

TEST PROCEDURE 94518B									
LOGIC DIAGRAM 945187-9901	*	*	*	*	*	*	*	*	*
PWB 945186-0001	*	A	A	A	A	B	B	B	C
ASSY 945185	*	A	B	C	D	E	F	G	H

PROCESSES:

1. SOLDER PER F-127, METHOD I AND/OR F-124
2. MARK PER F-100, METHOD II, CLASS I, HEIGHT .09, COLOR BLACK
3. MARK PER F-100, METHOD VII, HEIGHT .12, COLOR BLACK

NOTES:

1. REWORK PROCEDURE REQUIRED FOR ITEM 1 REV # ONLY:
 - A. CONNECT U4-13 TO PIN 14 OF U4
 - B. REMOVE C1 FROM BOARD
 - C. DRILL .039 DIA HOLE (1 PLACE) AS SHOWN:

NOTES:

4. INSTALL CAPACITOR C1 IN NEW LOCATION (NOTE: THE "+" SIDE GOES BACK INTO THE EXISTING HOLE. CUMMUND LEAD INSTALLED IN NEW HOLE AND SOLDER TO CIRCUIT.
5. IF PWB HAS BEEN REWORKED SKIP STEP B
2. REWORK PROCEDURE REQUIRED FOR PWB 945186-0001 REV # THRU ONLY:
 - A. ON CONDUCTOR SIDE CUT ETCH FROM U2-11 TO U3-9 AT BOTH ENDS NEAR U2-11 & U3-9

ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	CN 419518 (B) REV # 1 CHANGED FOR 1750 OF 11 (1) ADDED NOTE 1 (3) UPDATED REV LEVEL BLOCK	7/27/76	J. R. ...
	B	(1) DELETED ITEM 2A (1) U2-11, (1) U2-12, (1) U2-13, (1) U2-14, (1) U2-15, (1) U2-16, (1) U2-17, (1) U2-18, (1) U2-19, (1) U2-20, (1) U2-21, (1) U2-22, (1) U2-23, (1) U2-24, (1) U2-25, (1) U2-26, (1) U2-27, (1) U2-28, (1) U2-29, (1) U2-30, (1) U2-31, (1) U2-32, (1) U2-33, (1) U2-34, (1) U2-35, (1) U2-36, (1) U2-37, (1) U2-38, (1) U2-39, (1) U2-40, (1) U2-41, (1) U2-42, (1) U2-43, (1) U2-44, (1) U2-45, (1) U2-46, (1) U2-47, (1) U2-48, (1) U2-49, (1) U2-50, (1) U2-51, (1) U2-52, (1) U2-53, (1) U2-54, (1) U2-55, (1) U2-56, (1) U2-57, (1) U2-58, (1) U2-59, (1) U2-60, (1) U2-61, (1) U2-62, (1) U2-63, (1) U2-64, (1) U2-65, (1) U2-66, (1) U2-67, (1) U2-68, (1) U2-69, (1) U2-70, (1) U2-71, (1) U2-72, (1) U2-73, (1) U2-74, (1) U2-75, (1) U2-76, (1) U2-77, (1) U2-78, (1) U2-79, (1) U2-80, (1) U2-81, (1) U2-82, (1) U2-83, (1) U2-84, (1) U2-85, (1) U2-86, (1) U2-87, (1) U2-88, (1) U2-89, (1) U2-90, (1) U2-91, (1) U2-92, (1) U2-93, (1) U2-94, (1) U2-95, (1) U2-96, (1) U2-97, (1) U2-98, (1) U2-99, (1) U2-100	5/12/76	J. R. ...
	C	CN 419518 (D) (1) U2-11 (1) RELOCATED MARKING (2) DELETED ITEM 2A BUBBLE AND LOCATING DIMENSIONS FROM 4D (2) U2-11, DELETED ITEM 2A (2) U2-11, DELETED REV LEVEL BLC	3-28-76	J. R. ...
	D	CN 411301 (E) (1) U2-11 (1) U2-12, ITEM 22 WAS 928759-0001, 25V CAP (2) U2-11, 25V CAP (2) U2-11, 25V CAP (2) U2-11	3-28-76	J. R. ...
	E	CN 419539 (D) (1) U2-11 (1) U2-12 (1) U2-13 (1) U2-14 (1) U2-15 (1) U2-16 (1) U2-17 (1) U2-18 (1) U2-19 (1) U2-20 (1) U2-21 (1) U2-22 (1) U2-23 (1) U2-24 (1) U2-25 (1) U2-26 (1) U2-27 (1) U2-28 (1) U2-29 (1) U2-30 (1) U2-31 (1) U2-32 (1) U2-33 (1) U2-34 (1) U2-35 (1) U2-36 (1) U2-37 (1) U2-38 (1) U2-39 (1) U2-40 (1) U2-41 (1) U2-42 (1) U2-43 (1) U2-44 (1) U2-45 (1) U2-46 (1) U2-47 (1) U2-48 (1) U2-49 (1) U2-50 (1) U2-51 (1) U2-52 (1) U2-53 (1) U2-54 (1) U2-55 (1) U2-56 (1) U2-57 (1) U2-58 (1) U2-59 (1) U2-60 (1) U2-61 (1) U2-62 (1) U2-63 (1) U2-64 (1) U2-65 (1) U2-66 (1) U2-67 (1) U2-68 (1) U2-69 (1) U2-70 (1) U2-71 (1) U2-72 (1) U2-73 (1) U2-74 (1) U2-75 (1) U2-76 (1) U2-77 (1) U2-78 (1) U2-79 (1) U2-80 (1) U2-81 (1) U2-82 (1) U2-83 (1) U2-84 (1) U2-85 (1) U2-86 (1) U2-87 (1) U2-88 (1) U2-89 (1) U2-90 (1) U2-91 (1) U2-92 (1) U2-93 (1) U2-94 (1) U2-95 (1) U2-96 (1) U2-97 (1) U2-98 (1) U2-99 (1) U2-100	10-21-76	J. R. ...
	F	CN 420839 (D) (1) U2-11 (1) U2-12 (1) U2-13 (1) U2-14 (1) U2-15 (1) U2-16 (1) U2-17 (1) U2-18 (1) U2-19 (1) U2-20 (1) U2-21 (1) U2-22 (1) U2-23 (1) U2-24 (1) U2-25 (1) U2-26 (1) U2-27 (1) U2-28 (1) U2-29 (1) U2-30 (1) U2-31 (1) U2-32 (1) U2-33 (1) U2-34 (1) U2-35 (1) U2-36 (1) U2-37 (1) U2-38 (1) U2-39 (1) U2-40 (1) U2-41 (1) U2-42 (1) U2-43 (1) U2-44 (1) U2-45 (1) U2-46 (1) U2-47 (1) U2-48 (1) U2-49 (1) U2-50 (1) U2-51 (1) U2-52 (1) U2-53 (1) U2-54 (1) U2-55 (1) U2-56 (1) U2-57 (1) U2-58 (1) U2-59 (1) U2-60 (1) U2-61 (1) U2-62 (1) U2-63 (1) U2-64 (1) U2-65 (1) U2-66 (1) U2-67 (1) U2-68 (1) U2-69 (1) U2-70 (1) U2-71 (1) U2-72 (1) U2-73 (1) U2-74 (1) U2-75 (1) U2-76 (1) U2-77 (1) U2-78 (1) U2-79 (1) U2-80 (1) U2-81 (1) U2-82 (1) U2-83 (1) U2-84 (1) U2-85 (1) U2-86 (1) U2-87 (1) U2-88 (1) U2-89 (1) U2-90 (1) U2-91 (1) U2-92 (1) U2-93 (1) U2-94 (1) U2-95 (1) U2-96 (1) U2-97 (1) U2-98 (1) U2-99 (1) U2-100	1-27-77	J. R. ...
	G	CN 420440 (C) (1) U2-11 (1) U2-12 (1) U2-13 (1) U2-14 (1) U2-15 (1) U2-16 (1) U2-17 (1) U2-18 (1) U2-19 (1) U2-20 (1) U2-21 (1) U2-22 (1) U2-23 (1) U2-24 (1) U2-25 (1) U2-26 (1) U2-27 (1) U2-28 (1) U2-29 (1) U2-30 (1) U2-31 (1) U2-32 (1) U2-33 (1) U2-34 (1) U2-35 (1) U2-36 (1) U2-37 (1) U2-38 (1) U2-39 (1) U2-40 (1) U2-41 (1) U2-42 (1) U2-43 (1) U2-44 (1) U2-45 (1) U2-46 (1) U2-47 (1) U2-48 (1) U2-49 (1) U2-50 (1) U2-51 (1) U2-52 (1) U2-53 (1) U2-54 (1) U2-55 (1) U2-56 (1) U2-57 (1) U2-58 (1) U2-59 (1) U2-60 (1) U2-61 (1) U2-62 (1) U2-63 (1) U2-64 (1) U2-65 (1) U2-66 (1) U2-67 (1) U2-68 (1) U2-69 (1) U2-70 (1) U2-71 (1) U2-72 (1) U2-73 (1) U2-74 (1) U2-75 (1) U2-76 (1) U2-77 (1) U2-78 (1) U2-79 (1) U2-80 (1) U2-81 (1) U2-82 (1) U2-83 (1) U2-84 (1) U2-85 (1) U2-86 (1) U2-87 (1) U2-88 (1) U2-89 (1) U2-90 (1) U2-91 (1) U2-92 (1) U2-93 (1) U2-94 (1) U2-95 (1) U2-96 (1) U2-97 (1) U2-98 (1) U2-99 (1) U2-100	3-18-77	J. R. ...
	H	CN 933375 (D) (1) U2-11 (1) U2-12 (1) U2-13 (1) U2-14 (1) U2-15 (1) U2-16 (1) U2-17 (1) U2-18 (1) U2-19 (1) U2-20 (1) U2-21 (1) U2-22 (1) U2-23 (1) U2-24 (1) U2-25 (1) U2-26 (1) U2-27 (1) U2-28 (1) U2-29 (1) U2-30 (1) U2-31 (1) U2-32 (1) U2-33 (1) U2-34 (1) U2-35 (1) U2-36 (1) U2-37 (1) U2-38 (1) U2-39 (1) U2-40 (1) U2-41 (1) U2-42 (1) U2-43 (1) U2-44 (1) U2-45 (1) U2-46 (1) U2-47 (1) U2-48 (1) U2-49 (1) U2-50 (1) U2-51 (1) U2-52 (1) U2-53 (1) U2-54 (1) U2-55 (1) U2-56 (1) U2-57 (1) U2-58 (1) U2-59 (1) U2-60 (1) U2-61 (1) U2-62 (1) U2-63 (1) U2-64 (1) U2-65 (1) U2-66 (1) U2-67 (1) U2-68 (1) U2-69 (1) U2-70 (1) U2-71 (1) U2-72 (1) U2-73 (1) U2-74 (1) U2-75 (1) U2-76 (1) U2-77 (1) U2-78 (1) U2-79 (1) U2-80 (1) U2-81 (1) U2-82 (1) U2-83 (1) U2-84 (1) U2-85 (1) U2-86 (1) U2-87 (1) U2-88 (1) U2-89 (1) U2-90 (1) U2-91 (1) U2-92 (1) U2-93 (1) U2-94 (1) U2-95 (1) U2-96 (1) U2-97 (1) U2-98 (1) U2-99 (1) U2-100	10-17-79	E. H. ...

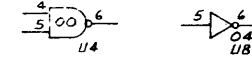
QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION									
<p>UNLESS OTHERWISE SPECIFIED</p> <ul style="list-style-type: none"> REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 P/R DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 															
<p>UNLESS OTHERWISE SPECIFIED</p> <ul style="list-style-type: none"> DIMENSIONS ARE IN INCHES TOLERANCES ANGLES 1" 3 PLACE DECIMALS = .010 2 PLACE DECIMALS = .02 				<p>DATE: 12-16-75</p> <p>CHEK: J. R. ...</p> <p>DESIGNED BY: J. R. ...</p> <p>APP'D: J. R. ...</p> <p>CONTR NO:</p> <p>DESIGN ACTIVITY RELEASE: 12-16-75</p>											
<p>HOLE TOLERANCE</p> <table border="1"> <tr> <td>.013 +.004</td> <td>.126 +.008</td> <td>.251 +.004</td> </tr> <tr> <td>THRU .001</td> <td>THRU .001</td> <td>THRU .001</td> </tr> <tr> <td>.135</td> <td>.250</td> <td>.500</td> </tr> </table>				.013 +.004	.126 +.008	.251 +.004	THRU .001	THRU .001	THRU .001	.135	.250	.500	<p>945023 7506</p> <p>APPLICATION: NEXT ASSY USED ON:</p>		
.013 +.004	.126 +.008	.251 +.004													
THRU .001	THRU .001	THRU .001													
.135	.250	.500													
<p>PARTS LIST</p> <p>DATE: 12-16-75</p> <p>CHEK: J. R. ...</p> <p>DESIGNED BY: J. R. ...</p> <p>APP'D: J. R. ...</p> <p>CONTR NO:</p> <p>DESIGN ACTIVITY RELEASE: 12-16-75</p>															
<p>UNLESS OTHERWISE SPECIFIED</p> <ul style="list-style-type: none"> DIMENSIONS ARE IN INCHES TOLERANCES ANGLES 1" 3 PLACE DECIMALS = .010 2 PLACE DECIMALS = .02 			<p>TEXAS INSTRUMENTS INCORPORATED</p> <p>Equipment Group Dallas, Texas</p> <p>990 CARD READER INTERFACE MODULE</p> <p>SIZE: CODE IDENT NO: DRAWING NO: 945185</p> <p>SCALE: 1/1 SHEET</p>												

TEXAS INSTRUMENTS INCORPORATED		DATE 03/16/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945185-0001		REV H 0		
ITEM NO.	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
C001	0001.000	EA		094516-0001	PWB-CARD READER I/F MODULE	NON -E						
0002	REF	EA		094517-9901	LOGIC-990 CARD READER I/F MODULE							
0003	REF	EA		094518-9901	TEST PROCEDURE-CARD READER I/F MODULE							
0004	REF	EA		094519-9901	SPECIFICATION-CARD READER I/F MODULE							
0006	0002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB							
C007	0003.CCC	EA		022222-7400	NETWORK SN74JUN	-SN7400N						
C007A					L1 U13 U21							
C008	0001.CCC	EA		022222-7401	NETWORK SN7401N							
C008A					L3							
C009	0003.CCC	EA		022222-7404	NETWORK SN7404N							
C009A					L8 L10 U22							
C010	0005.000	EA		022222-7408	NETWORK-SN7408N							
C010A					U2 U5 U9 U17 U18							
0011	0001.000	EA		022222-7442	NETWORK-SN7442N							
C011A					L12							
0012	0001.000	EA		022222-7451	NETWORK SN7451N	-SN7451N						
C012A					U11							
0013	0005.000	EA		022222-7474	NETWORK SN7474N	-SN7474N						
C013A					U4 U6 U7 U19 U20							
C014	0001.000	EA		022222-7475	NETWORK-SN7475N							
DRAFTSMAN		DATE	CHK. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 CARD READER I/F MODULE				
APP. ENG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7500				
								PART NUMBER LM 0945185-0001				
								REV H 0				

TEXAS INSTRUMENTS INCORPORATED		DATE 03/16/77		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945185-0001		REV H 0		
ITEM NO.	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0014A					L14							
0015	0001.000	EA		022222-7100	NETWORK SN74100N							
0015A					U16							
0016	0001.000	EA		022222-7150	NETWORK SN74150N							
C016A					L15							
0017	00030.000	EA		0972946-0054	RES FIX 360 OHM 5 1/2 .25 W CARBON FILM	ROH - R-25						
0017A					R1 THRU R30							
0018	0002.000	EA		0972946-0065	RES FIX 1.0K OHM 5 1/2 .25 W CARBON FILM	ROH - R-25						
0018A					R35 R38							
0019	0001.CCC	EA		0972946-0071	RES FIX 1.8K OHM 5 1/2 .25 W CARBON FILM	ROH - R-25						
0019A					R36							
C020	0001.CCC	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 1/2 20 VOLTS	QPL -M39003/1-2295						
0020A					C1							
0021	0001.000	EA		0535937-0025	CAP.FIX.CERAMIC .47 MF 50V 20%	ERI - 8131-050651						
0021A					C2							
0022	0004.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%							
0022A					C3 C4 C5 C6							
0023	00018.000	EA		0972057-0001	TRANSISTOR-AST.222 NPN SILICON	TI- -A5T2222						
C023A					G1 THRU Q18							
0025	0001.000	EA		0972946-0038	RES FIX 75.0 OHM 5 1/2 .25 W CARBON FILM	ROH - R-25						
DRAFTSMAN		DATE	CHK. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 CARD READER I/F MODULE				
APP. ENG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
								PART NUMBER LM 0945185-0001				
								REV H 0				

TEXAS INSTRUMENTS INCORPORATED		DATE 03/16/77		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0945185-0001		REV H 0		
ITEM NO.	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0025A					R34							
0026	0002.000	EA		0972946-0045	RES FIX 150 OHM 5 1/2 .25 W CARBON FILM	ROH - R-25						
0026A					R31 R33							
0027	0001.000	EA		0972946-0049	RES FIX 220 OHM 5 1/2 .25 W CARBON FILM	ROH - R-25						
C027A					R32							
DRAFTSMAN		DATE	CHK. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 CARD READER I/F MODULE				
APP. ENG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
								PART NUMBER LM 0945185-0001				
								REV H 0				

- NOTES: UNLESS OTHERWISE SPECIFIED;
1. ALL DEVICE TYPES ARE PREFIXED WITH SN 74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATORS OF IC'S IS SHOWN AS FOLLOWS;

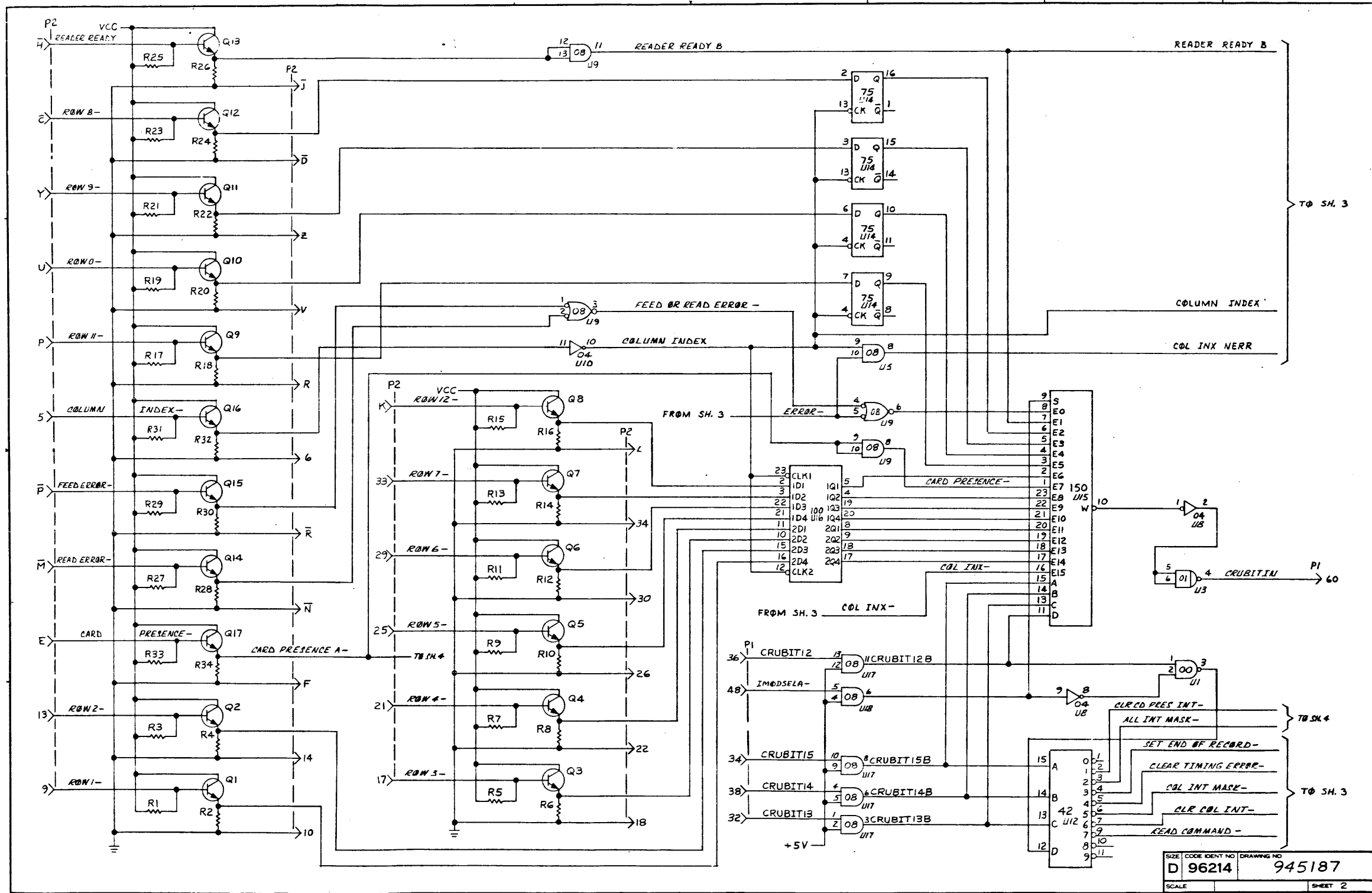


00 AND 04 = DEVICE TYPE
 4, 5, AND 6 = PIN NUMBERS
 U4 AND UB = REFERENCE DESIGNATOR

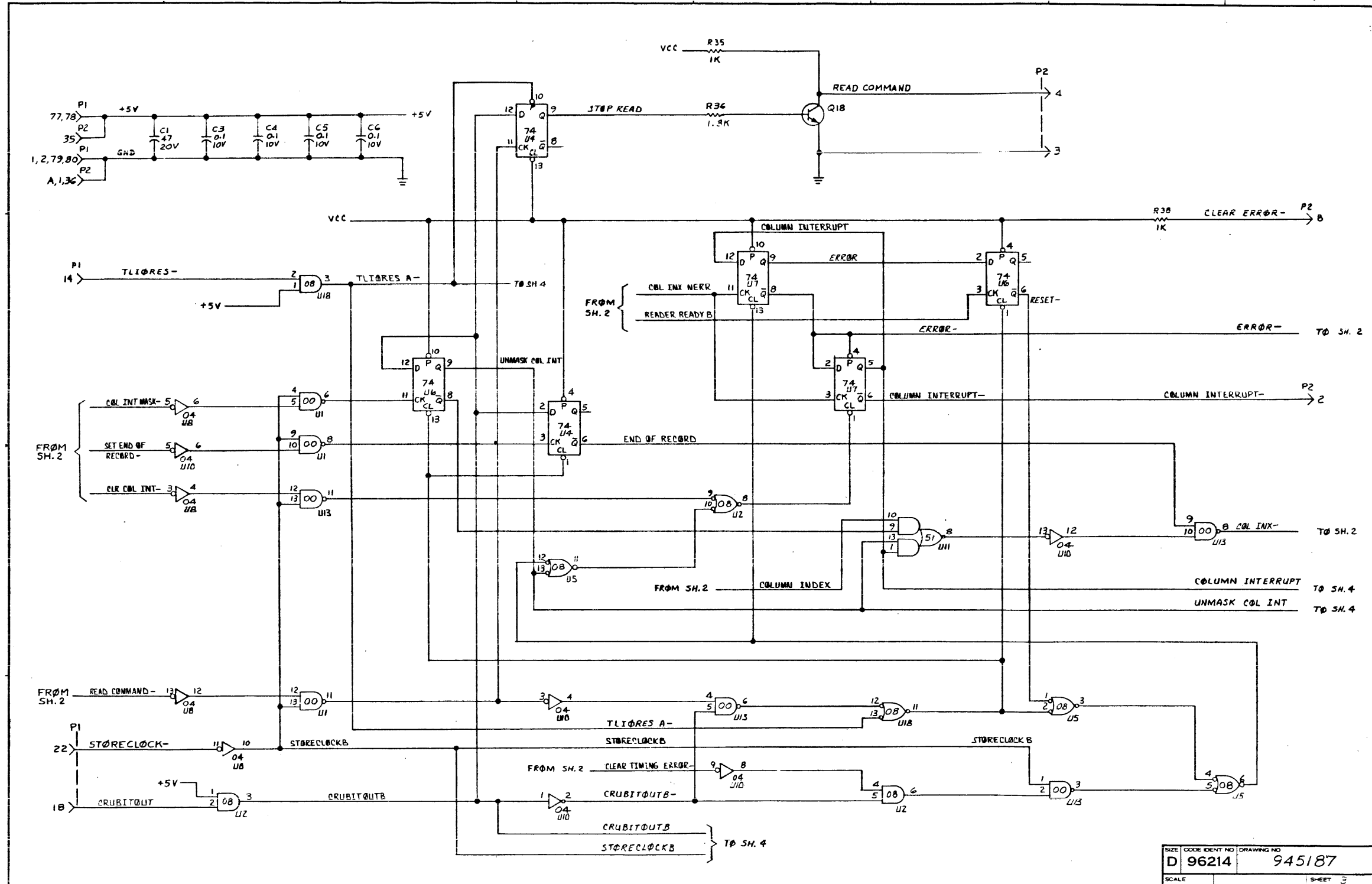
5. ALL RESISTORS ARE 360 OHM .25 WATT
6. ALL TRANSISTORS ARE 2N2222

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

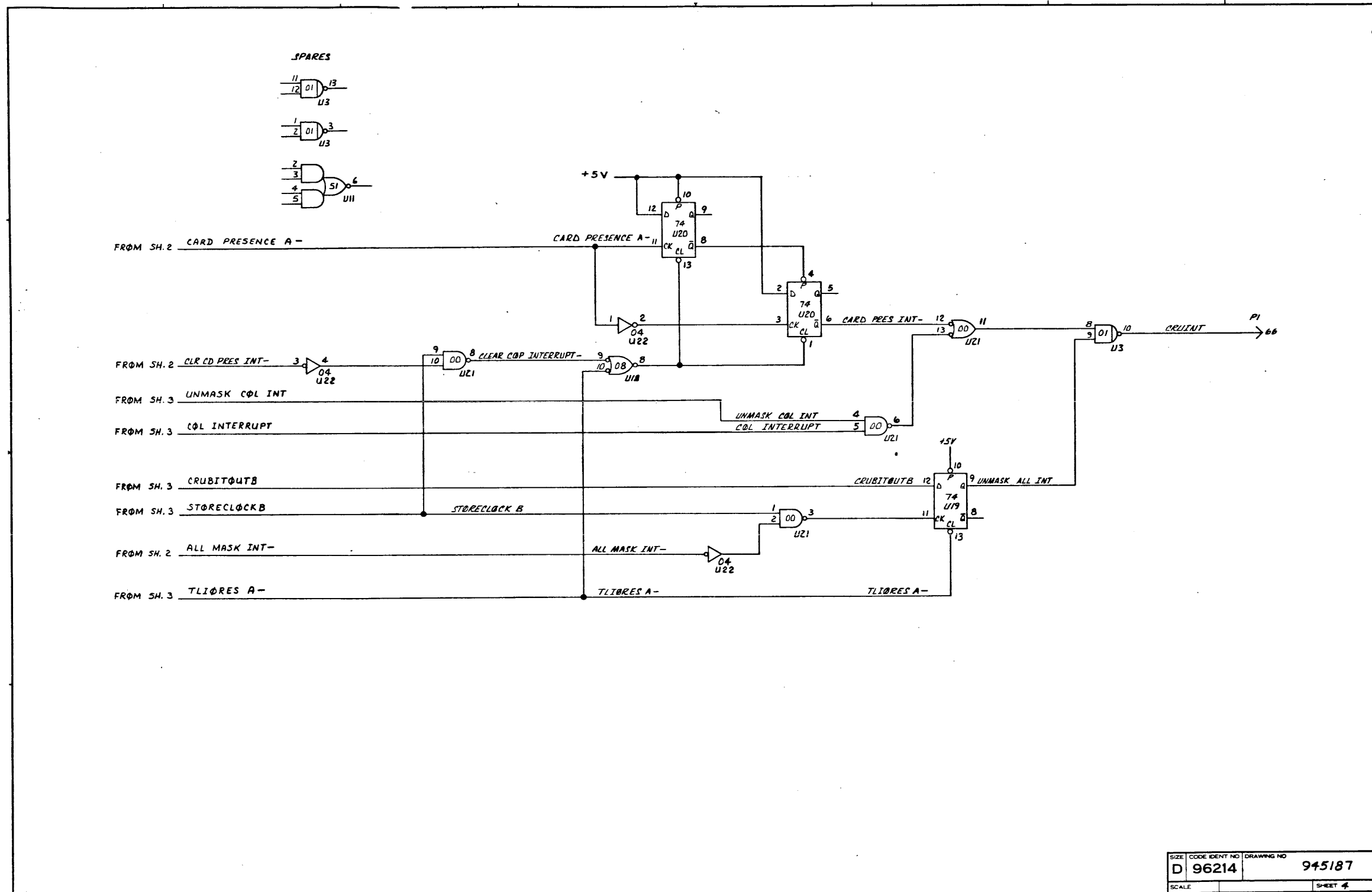
REV STATUS REV 1 2 3 4 5 OF SHEETS 37 1 3 2		-2 -1 QTY REQD ITEM NO	CODE IDENT PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
UNLESS OTHERWISE SPECIFIED REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 F1R DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02		PARTS LIST DWN DATE 11-12-75 CKD ENGR QA APVD CONTR NO	
HOLE TOLERANCE .013 + .004 THRU - .001 .125 + .000 THRU - .001 .125 + .000 THRU - .001 .501 + .008 THRU - .010 .750 + .001 THRU - .001		.251 + .006 THRU - .001 .500 + .001 THRU - .001 .001 + .012 THRU - .001 .200 + .001 THRU - .001		TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas DIAGRAM LOGIC, DETAILED 80 COLUMN CARD READER INTERFACE SIZE CODE IDENT NO DRAWING NO D 96214 945187	
APPLICATION		NEXT ASSY USED ON		SCALE SHEET 1 OF 4	



Card Reader Interface Logic Diagram



SIZE	CODE IDENT NO	DRAWING NO
D	96214	945187
SCALE	SHEET 3	



SIZE	CODE IDENT NO	DRAWING NO
D	96214	945187
SCALE	SHEET 4	

NOTES:

- REWORK ALL PWB'S REVISIONS THRU C. SOLDER DIODE CR1 (ITEM 43) TO RESISTOR R36 (ITEMS)
- ITEM 44 IN -0001 THRU -0006 CONSISTS OF COMPONENTS WHICH ARE AUTO INSERTED AND CONTAINED IN THE -5001777A-5006 LM'S.
- REWORK PROCEDURE FOR REV A, B & C BOARDS:
 - CUT ETCH AT LEFT OF E7 AND E13;
 - ADD JUMPER (26 AWG) FROM U10-5 TO BOTTOM OF CUT ETCH.

MARK PER PROCESS 3

MARK PER PROCESS 3

MARK APPROPRIATE DASH NUMBER PER PROCESS 2.
MARK APPROPRIATE REVISION LETTER PER PROCESS 2.

32 PLACES

32 Z REQD

COMPONENT SIDE

SECTION B-B SCALE: NONE

SECTION A-A SCALE: NONE

INSTALL TRANSISTORS SUCH THAT MAXIMUM HEIGHT OFF OF BOARD IS .35

PROCESSES:

- SOLDER PER F-127, METHOD I AND/OR F-124
- MARK PER F-100, METHOD II, CLASS 1, HEIGHT .09, COLOR BLACK
- MARK PER F-100, METHOD III, HEIGHT .12, COLOR BLACK

REVISION LEVEL

TEST PROC	945148-9901	*	*	*	*	*	A	A	A	A	A	A	B	B	B	B	B	B	B	B				
LOGIC DIAGRAM	945147-9901	*	*	*	*	*	*	A	A	A	B	B	B	C	C	C	C	C	C	C				
PWB	945146-0001	A	A	B	B	B	B	C	C	C	C	D	D	D	D	D	D	D	D	D				
ASSY	945145	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V	W	Y	AA	AB	AC

REVISIONS

REV	DATE	DESCRIPTION	APPROVED
A	4/19/76	EN 40826 (1) A. DASH (1) REVISED REV STATUS BLOCK (2) IN LM ADDED ITEM 33	J. R. P.
B	5-11-76	EN 407716 (1) B. DASH (1) MARKING 16 I/O WAS 16 I/O AND ADDED MARKING TTL (2) UPDATED REV LEVEL BLOCK	J. R. P.
C	8/14/76	EN 415299 (1) C. DASH (1) DELETED ITEM 29 ON LM & PD (2) UPDATED REV LEVEL BLOCK & ADDED TEST PROC	J. R. P.
D	9-20-76	EN 416900 (1) D. DASH (1) DELETED DELETED DIM. 125 MAX (2) ON ALL DIMS VDS ITEM 30 WAS 535978-0004 (3) UPDATED REV LEVEL BLOCK	J. R. P.
E	9-20-76	EN 417301 (1) E. DASH (1) -1 TRAP -4 LM, ITEM 14 WAS 972759-0021, 25V CAP (2) UPDATED REVISION LEVEL BLOCK	J. R. P.
F	10-26-76	EN 41826 (1) F. DASH (1) UPDATED REV LEVEL (2) ON LM ITEM 32 WAS 972748-0001, ITEM 16 WAS 97309TY WA 3 AR	J. R. P.
G	1-22-77	EN 420845 (1) G. DASH (1) IN LM -1, -2, -3, -4 ITEM 33 WAS 972678-4 (2) UPDATED REV LEV BLK	J. R. P.
H	3-18-77	EN 424340 (1) H. DASH (1) UPDATED REV LEVEL BLOCK	J. R. P.
J	4-14-77	EN 419388 (1) J. DASH (1) UPDATED REV LEVEL BLOCK (2) ADDED 937492 & 937495 TO N/A BLOCK (3) ADDED FLAG NOTE 1 (4) ADDED SECTION B-B TO F/D (5) ON LM -0003 ONLY: FN OF ITEM 20 WAS 972946-0001: ADDED ITEM 43	J. R. P.
K	8-24-77	EN 417919 (1) K. DASH (1) LM-1 DELETED ITEMS 2, 3, 5, 14, 20, 31 AND ADDED ITEM 44. LM-2 DELETE ITEMS 2, 3, 5, 14, 20, 31 AND ADD ITEM 44 (2) SH 1 ADDED NOTE 2 AND DASH NO BLOCK (3) UPDATED REV LEVEL BLOCK. (4) CREATED -5001 & -5002 LM'S	J. R. P.
L	9-10-77	EN 42784 (1) L. DASH (1) LM -4 ITEM 14 B DESC WAS C14, C22, C25 (2) UPDATED REV LEVEL BLOCKS	J. R. P.
M	8-31-77	EN 424262 (1) M. DASH (1) LM-3 E5-E20 WAS E5-E8 FOR -0002 & -0003 (2) ADDED NOTE 3 (3) ADDED E7, E5, E6, E8, E12, E11 TO F/D (4) UPDATED REV LEVEL BLOCK	J. R. P.
N	10-4-77	EN 42480 (1) N. DASH (1) ADDED -0005 & -0006 TO JUMPER SCHEDULE (2) ADDED -0005 & -0006 LM'S (3) ADDED -0005 TO NOTE 2 (4) UPDATED REV LEVEL BLOCK	J. R. P.
P	11-9-77	EN 425112 (1) P. DASH (1) LM-5002, -0004 & -0005 ITEM 20, PART NO WAS 972446-0001 (2) LM-0001, -0002, -0004, -0005 ADDED ITEM 43 (3) LM-0003 & -0006 ITEM 22, QTY WAS 10 (4) UPDATED REV STATUS BLOCK	J. R. P.

JUMPER CONNECTIONS

PART NUMBER	CONNECTIONS	DESCRIPTION
945145-0001	E5-E6 E16-E18 E17-E19	990 16 I/O D/M W/O INT IN/SK PULL-UPS
945145-0002	E5-E8 E9-E10 E6-E12 E7-E13 E16-E18 E17-E19	990 16 I/O D/M W/L INT MASHABLE PULLING
945145-0003	E5-E8 E9-E10 E11-E12 E7-E13 E16-E18 E17-E19	990 16 I/O D/M L/H INT MASHABLE PULLING
945145-0004	E5-E6 E16-E18 E17-E19	990 16 I/O D/M W/O INT IN/SK PULL-UPS
945145-0005	E5-E20 E9-E10 E6-E12 E7-E13 E16-E18 E17-E19	990 16 I/O D/M H/L INT CONTIN- UOUS PULLING
945145-0006	E5-E20 E9-E10 E11-E12 E7-E13 E16-E18 E17-E19	990 16 I/O D/M L/H INT CONTIN- UOUS PULLING

PART NO BLOCK CONT'S

PART NO	DESCRIPTION
945145-0006	990 16 I/O DATA MOD LOW TO HIGH INT
-0005	990 16 I/O DATA MOD HIGH TO LOW INT
-5002	AUTO INSERTION TAPE FOR 945145-0002
-5001	AUTO INSERTION TAPE FOR 945145-0001
-0004	990 16 3/0 DATA MOD W/O INTER
-0003	990 16 I/O DATA MOD LOW TO HIGH INT
-0002	990 16 I/O DATA MOD HIGH TO LOW INT
945145-0001	990 16 3/0 DATA MOD W/O INTER

REV STATUS OF SHEETS

REV	AC	AC
SHEET	1	2

PARTS LIST

QTY	ITEM NO	CODE	IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
1	1					
1	2					

UNLESS OTHERWISE SPECIFIED

REMOVE ALL BURRS AND SHARP EDGES

CONCENTRICITY MACHINED DIAMETERS .010 IN

DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING

IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY

INTERNET DRAWINGS IN ACCORDANCE WITH MIL-STD-100

HOLE TOLERANCE

.013 - .018	±.008	.251 - .500	±.008
.188 - .501	±.010	.501 - 1.000	±.010
1.001 - 3.000	±.012	3.001 - 6.000	±.015
6.001 - 30.000	±.020	30.001 - 100.000	±.030
100.001 - 300.000	±.030	300.001 - 1000.000	±.050
1000.001 - 3000.000	±.060	3000.001 - 10000.000	±.100

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

TOLERANCES

ANGLES	±.1°
3 PLACE DECIMALS	±.010
2 PLACE DECIMALS	±.005

DATE: 12-17-75

DESIGNED BY: J. R. P.

CHECKED BY: J. R. P.

DATE: 12/17/75

APPROVED BY: J. R. P.

DATE: 12/17/75

REVISION ACTIVITY RELEASE

DATE: 12/17/75

BY: J. R. P.

DATE: 12-17-75

SCALE: 1/1

SHEET: 1-2

TEXAS INSTRUMENTS

INCORPORATED

Equipment Group

990 16 I/O TTL DATA MODULE

SIZE: CODE IDENT NO: D 96214

DRAWING NO: 945145

ZONE, LTR.	DESCRIPTION	DATE	APPROVED
R	CN42510 (C) & Elements (1) UPDATED REV LEVEL BLOCK	11-8-77	J. Rott
T	CN42554 (C) & Elements (1) ON 1 NOTE 1 HAS... REV. LVL. B. A. O. R. E. (2) UPDATED REV LEVEL BLOCK	12-16-77	J. Rott
U	CN430070 (C) & Elements (1) DELETED FOR 0003 ASSEMBLIES ONLY IN NOTE 1 (2) DELETED ONLY IN SECTION B-B (3) UPDATED REV LEVEL BLOCK	2-15-78	J. Rott
V	CN44865 (C) & Elements (1) CREATED -5003 -5004, -5005 & -5006 LMS (2) UPDATED REV LEVEL BLOCK	6-27-78	J. Rott
W	CN4422665 (C) & Elements (1) EN C-7 ADDED CK1 TO FD (2) UPDATED REV LEVEL BLOCK	8-16-78	J. Rott
Y	CN448734 (C) & Elements (1) ADD E7, E9, E10, E13, E16 THRU E19 (2) UPDATE REV LEVEL	12-7-78	E. Wang
AA	CN441349 (C) & Elements (1) ON LM 945145 -1, -2, -3, -4, -5, -6, DELETED ITEMS 1, 7, 8, 9 (1) AND ADDED TO LM 945145 -5001, -5002, -5003, -5004, -5005 & 5006 ITEMS 1, 7, 8, 9 (1) (2) UPDATED REV LVL BLOCK	12-11-78	E. Wang
AB	CN4448375 (E) & Elements (1) ON LM -1, -2, -3, -4, -5, -6, ITEM 33 WAS 0972137 0004 (2) UPDATED REV LEVEL BLOCK	9-11-79	E. Wang
AC	CN433785 (C) & Elements (1) EXCHANGED TITLES ON LMS (2) ON LMS -1 WAS... D/M H/O INT -2 WAS... D/M H/L INT -3 WAS... D/M L/H INT -4 WAS... D/M H/O INT -5 WAS... D/M H/L INT -6 WAS... D/M L/H INT (2) UPDATED REV LEVEL BLOCK	9-11-79	E. Wang

2	945145-5006	AUTO INSERTION TAPE FOR 945145-0006
	-5005	
	-5004	
	945145-5003	
PART NO.	DESCRIPTION	

TEXAS INSTRUMENTS CORPORATION DALLAS, TEXAS	DATE	11-4-77	SIZE (FROM NO.)	D96214	DRAWING NO.	945145	REV	AC
	ISSUE DATE	11-8-77	SCALE	1/1	SHEET	2		

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-0001		REV AC		
REF. PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0006	00032.000	EA		0972057-0001	TRANSISTOR-A5T2222 NPN SILICON	TI- -A5T2222						
0006A					Q1 THRU Q32							
0010	00001.000	EA		222222-7440	NETWORK SN7440N	-SN7440N						
0010A					U2							
0011	00001.000	EA		222222-7474	NETWORK SN7474N	-SN7474N						
0011A					U10							
0012	00001.000	EA		222222-7150	NETWORK SN74150N	-SN74154N						
0012A					U3							
0013	00001.000	EA		222222-7154	NETWORK SN74154N	-SN74154N						
0013A					U13							
0015	00001.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 X 20 VOLT	QPL -H39003/1-2295						
0015A					C27							
0016	00000.020	FT		2210083-0003	WIRE,ELEC,COND U/L STYLE 1213,24 AWG	090484-NTE24A						
0024	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10X 200V	UPL -H39014/01-1397						
0024A					C28							
0030	00000.020	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG							
0030A					F1							
0032	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PHB							
0033	00001.000	EA		0972706-0005	HEADER, CONN, RIGHT ANGLE, 40 CONTACTS	U75037-3495-1002						
0033A					P2							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 16I/O D/M W/O INT IN/.36K PULL-UPS				
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506				

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-0001		REV AC		
REF. PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0040	REF	EA		0945147-9901	DIAGRAM, LOGIC, 16 I/O DATA MODULE							
0041	REF	EA		0945148-9901	TEST PROCEDURE, 16 I/O DATA MODULE							
0042	REF	EA		0945149-9901	SPECIFICATION, 16 I/O DATA MODULE							
0043	00001.000	EA		0972932-0001	DIODE,1N914B SWITCHING 75V PIV 75MA 4NS	TI - IN914B						
0043A					CR1							
0044	00001.000	EA		0945145-5001	AUTO INSERTION TAPE FOR 945145-1							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 16I/O D/M W/O INT IN/.36K PULL-UPS				
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM945145-0001				

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-0002		REV AC		
REF. PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0006	00032.000	EA		0972057-0001	TRANSISTOR-A5T2222 NPN SILICON	TI- -A5T2222						
0006A					Q1 THRU Q32							
0010	00001.000	EA		222222-7440	NETWORK SN7440N	-SN7440N						
0010A					U2							
0011	00001.000	EA		222222-7474	NETWORK SN7474N	-SN7474N						
0011A					U10							
0012	00001.000	EA		222222-7150	NETWORK SN74150N	-SN74154N						
0012A					U3							
0013	00001.000	EA		222222-7154	NETWORK SN74154N	-SN74154N						
0013A					U13							
0015	00001.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 X 20 VOLT	QPL -H39003/1-2295						
0015A					C27							
0016	00000.020	FT		2210083-0003	WIRE,ELEC,COND U/L STYLE 1213,24 AWG	090484-NTE24A						
0024	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10X 200V	QPL -H39014/01-1397						
0024A					C28							
0030	00000.020	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG							
0030A					F1							
0032	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PHB							
0033	00001.000	EA		0972706-0005	HEADER, CONN, RIGHT ANGLE, 40 CONTACTS	075037-3495-1002						
0033A					P2							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 16I/O D/M W/L INT MASKABLE POLLING				
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM945145-0002				

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-0002		REV AC		
REF. PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0040	REF	EA		0945147-9901	DIAGRAM, LOGIC, 16 I/O DATA MODULE							
0041	REF	EA		0945148-9901	TEST PROCEDURE, 16 I/O DATA MODULE							
0042	REF	EA		0945149-9901	SPECIFICATION, 16 I/O DATA MODULE							
0043	00001.000	EA		0972932-0001	DIODE,1N914B SWITCHING 75V PIV 75MA 4NS	TI - IN914B						
0043A					CR1							
0044	00001.000	EA		0945145-5002	AUTO INSERTION TAPE FOR 945145-2							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 16I/O D/M W/L INT MASKABLE POLLING				
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM945145-0002				

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-0003		REV AC	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0006	00032.000	EA		0972057-0001	TRANSISTOR-A5T2222 NPN SILICON	TI- -A5T2222					
0006A					Q1 THRU Q32						
0010	00001.000	EA		0222222-7440	NETWORK SN7440N	-SN7440N					
0010A					U2						
0011	00001.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N					
0011A					U10						
0012	00001.000	EA		0222222-7150	NETWORK SN74150N						
0012A					U3						
0013	00001.000	EA		0222222-7154	NETWORK SN74154N	-SN74154N					
0013A					U13						
0015	00001.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 X 20 VOLT	QPL -M39003/1-2295					
0015A					C27						
0016	00000.020	FT		2210083-0003	WIRE,ELEC,COND U/L STYLE 1213,24 AWG	090484-MTE24A					
0024	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 104 200V	QPL -M39014/01-1397					
0024A					C28						
0030	00000.020	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG						
0030A					F1						
0032	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0033	00001.000	EA		0972706-0005	HEADER, CONN, RIGHT ANGLE, 40 CONTACTS	075037-3495-1002					
0033A					P2						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 16I/O D/M L/H INT MASKABLE POLLING			
APP'D. MFG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM945145-0003		REV AC	

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-0003		REV AC	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0040	REF	EA		0945147-9901	DIAGRAM, LOGIC, 16 I/O DATA MODULE						
0041	REF	EA		0945148-9901	TEST PROCEDURE, 16 I/O DATA MODULE						
0042	REF	EA		0945149-9901	SPECIFICATION, 16 I/O DATA MODULE						
0043	00001.000	EA		0972932-0001	DIODE,IN9148 SWITCHING 75V PIV 75MA 4NS	TI - IN9148					
0043A					CR1						
0044	00001.000	EA		0945145-5003	AUTO INSERTION TAPE FOR 945145-3						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 16I/O D/M L/H INT MASKABLE POLLING			
APP'D. MFG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM945145-0003		REV AC	

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-0004		REV AC	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0040	REF	EA		0945147-9901	DIAGRAM, LOGIC, 16 I/O DATA MODULE						
0041	REF	EA		0945148-9901	TEST PROCEDURE, 16 I/O DATA MODULE						
0042	REF	EA		0945149-9901	SPECIFICATION, 16 I/O DATA MODULE						
0043	00001.000	EA		0972932-0001	DIODE,IN9148 SWITCHING 75V PIV 75MA 4NS	TI - IN9148					
0043A					CR1						
0044	00001.000	EA		0945145-5004	AUTO INSERTION TAPE FOR 945145-4						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 16I/O DM W/O INT IN/3K PULL-UPS			
APP'D. MFG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM945145-0004		REV AC	

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-0004		REV AC	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0006	00032.000	EA		0972057-0001	TRANSISTOR-A5T2222 NPN SILICON	TI- -A5T2222					
0006A					Q1 THRU Q32						
0010	00001.000	EA		0222222-7440	NETWORK SN7440N	-SN7440N					
0010A					U2						
0011	00001.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N					
0011A					U10						
0012	00001.000	EA		0222222-7150	NETWORK SN74150N						
0012A					U3						
0013	00001.000	EA		0222222-7154	NETWORK SN74154N	-SN74154N					
0013A					U13						
0015	00001.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 X 20 VOLT	QPL -M39003/1-2295					
0015A					C27						
0016	00000.020	FT		2210083-0003	WIRE,ELEC,COND U/L STYLE 1213,24 AWG	090484-MTE24A					
0024	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 104 200V	QPL -M39014/01-1397					
0024A					C28						
0030	00000.020	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG						
0030A					F1						
0032	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0033	00001.000	EA		0972706-0005	HEADER, CONN, RIGHT ANGLE, 40 CONTACTS	075037-3495-1002					
0033A					P2						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 16I/O DM W/O INT IN/3K PULL-UPS			
APP'D. MFG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM945145-0004		REV AC	

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-0005		REV AC		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0006	00032.000	EA		0972057-0001	TRANSISTOR-A5T2222 NPN SILICON	TI- -A5T2222						
0006A					Q1 THRU Q32							
0010	00001.000	EA		0222222-7440	NETWORK SN7440N	-SN7440N						
0010A					U2							
0011	00001.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N						
0011A					U10							
0012	00001.000	EA		0222222-7150	NETWORK SN74150N							
0012A					U3							
0013	00001.000	EA		0222222-7154	NETWORK SN74154N	-SN74154N						
0013A					U13							
0015	00001.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 & 20 VOLT	QPL -H39003/1-2295						
0015A					C27							
0016	00000.020	FT		2210083-0003	WIRE,ELEC,COND U/L STYLE 1213,24 AWG	090484-NTE24A						
0024	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10% 200V	QPL -H39014/01-1397						
0024A					C28							
0030	00000.020	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG							
0030A					F1							
0032	00002.000	EA		0533844-0001	EJECTOR, NYLON, N3N-LOCKING, PWB							
0033	00001.000	EA		0972706-0005	HEADER, CONN, RIGHT ANGLE, 40 CONTACTS	075037-3495-1002						
0033A					P2							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 161/0 D/M H/L INT CONTINUOUS POLLING				
APP'D-ENG.		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM945145-0005				

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-0005		REV AC		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0040	REF	EA		0945147-9901	DIAGRAM, LOGIC, 16 I/O DATA MODULE							
0041	REF	EA		0945148-9901	TEST PROCEDURE, 16 I/O DATA MODULE							
0042	REF	EA		0945149-9901	SPECIFICATION, 16 I/O DATA MODULE							
0043	00001.000	EA		0972932-0001	DIODE,1N9148 SWITCHING 75V PIV 75MA 4NS	TI - IN9148						
0043A					CR1							
0044	00001.000	EA		0945145-5005	AUTO INSERTION TAPE FOR 945145-5							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 161/0 D/M H/L INT CONTINUOUS POLLING				
APP'D-ENG.		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM945145-0005				

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-0006		REV AC		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0006	00032.000	EA		0972057-0001	TRANSISTOR-A5T2222 NPN SILICON	TI- -A5T2222						
0006A					Q1 THRU Q32							
0010	00001.000	EA		0222222-7440	NETWORK SN7440N	-SN7440N						
0010A					U2							
0011	00001.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N						
0011A					U10							
0012	00001.000	EA		0222222-7150	NETWORK SN74150N							
0012A					U3							
0013	00001.000	EA		0222222-7154	NETWORK SN74154N	-SN74154N						
0013A					U13							
0015	00001.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 & 20 VOLT	QPL -H39003/1-2295						
0015A					C27							
0016	00000.020	FT		2210083-0003	WIRE,ELEC,COND U/L STYLE 1213,24 AWG	090484-NTE24A						
0024	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10% 200V	QPL -H39014/01-1397						
0024A					C28							
0030	00000.020	FT		0535978-0058	WIRE ELEC.,SOLID,"KYNAR" INSUL #30 AWG							
0030A					F1							
0032	00002.000	EA		0533844-0001	EJECTOR, NYLON, N3N-LOCKING, PWB							
0033	00001.000	EA		0972706-0005	HEADER, CONN, RIGHT ANGLE, 40 CONTACTS	075037-3495-1002						
0033A					P2							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 161/0 D/M L/H INT CONTINUOUS POLLING				
APP'D-ENG.		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM945145-0006				

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-0006		REV AC		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0040	REF	EA		0945147-9901	DIAGRAM, LOGIC, 16 I/O DATA MODULE							
0041	REF	EA		0945148-9901	TEST PROCEDURE, 16 I/O DATA MODULE							
0042	REF	EA		0945149-9901	SPECIFICATION, 16 I/O DATA MODULE							
0043	00001.000	EA		0972932-0001	DIODE,1N9148 SWITCHING 75V PIV 75MA 4NS	TI - IN9148						
0043A					CR1							
0044	00001.000	EA		0945145-5006	AUTO INSERTION TAPE FOR 945145-6							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 161/0 D/M L/H INT CONTINUOUS POLLING				
APP'D-ENG.		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM945145-0006				

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-5001		REV AC	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945146-0001	PMB-16 I/O DATA MODULE						
0002	00016.000	EA		0972946-0071	RES FIX 1.8K OHM 5 & .25 W CARBON FILM	ROH - R-25					
0002A					R26 R28 R30 R41 R43 R45 R47						
0002B					R49 R51 R53 R57 R59 R61 R63						
0002C					R65 R55						
0003	00032.000	EA		0972946-0054	RES FIX 360 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0003A					R1 THRU R20 R22 THRU R25						
0003B					R32 THRU R37 R39 R40						
0005	00003.000	EA		0972946-0076	RES FIX 3.0K OHM 5 & .25 W CARBON FILM	ROH - R-25					
0005A					R21 R38 R68						
0007	00001.000	EA		0222222-7400	NETWORK SN7400N	-SN7400N					
0007A					U5						
0008	00001.000	EA		0222222-7401	NETWORK SN7401N						
0008A					U4						
0009	00001.000	EA		0222222-7408	NETWORK-SN7408N						
0009A					U8						
0011	00007.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N					
0011A					U1 U6 U9 U16 U17 U18 U20						
0014	00010.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0014A					C3 C6 C9 C10 C13 C16 C19						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-1											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5001 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-5001		REV AC	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014B					C20 C23 C25						
0020	00002.000	EA		0972946-0053	RES FIX 330 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0020A					R67 R69						
0031	00016.000	EA		0972946-0017	RES FIX 10.0 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0031A					R70 THRU R85						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-1											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5001 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-5002		REV AC	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945146-0001	PMB-16 I/O DATA MODULE						
0002	00016.000	EA		0972946-0071	RES FIX 1.8K OHM 5 & .25 W CARBON FILM	ROH - R-25					
0002A					R26 R28 R30 R41 R43 R45 R47						
0002B					R49 R51 R53 R55 R57 R59 R61						
0002C					R63 R65						
0003	00031.000	EA		0972946-0054	RES FIX 360 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0003A					R1 THRU R20 R22 THRU R25						
0003B					R32 THRU R37 R39						
0005	00003.000	EA		0972946-0076	RES FIX 3.0K OHM 5 & .25 W CARBON FILM	ROH - R-25					
0005A					R21 R38 R68						
0007	00001.000	EA		0222222-7400	NETWORK SN7400N	-SN7400N					
0007A					U5						
0008	00001.000	EA		0222222-7401	NETWORK SN7401N						
0008A					U4						
0009	00001.000	EA		0222222-7408	NETWORK-SN7408N						
0009A					U8						
0011	00007.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N					
0011A					U1 U6 U9 U16 U17 U18 U20						
0014	00010.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0014A					C3 C6 C9 C10 C13 C16 C19						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-2											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5002 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-5002		REV AC	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014B					C20 C23 C25						
0020	00002.000	EA		0972946-0053	RES FIX 330 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0020A					R67 R69						
0022	00014.000	EA		0972946-0083	RES FIX 5.6K OHM 5 & .25 W CARBON FILM	ROH - R-25					
0022A					R27 R29 R31 R42 R44 R46 R48						
0022B					R54 R56 R58 R60 R62 R64 R66						
0031	00016.000	EA		0972946-0017	RES FIX 10.0 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0031A					R70 THRU R85						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-2											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5002 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-5003		REV AC	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945146-0001	PHB-16 I/O DATA MODULE						
0002	00016.000	EA		0972946-0071	RES FIX 1.8K OHM 5 4 .25 W CARBON FILM	RDH - R-25					
0002A					R26 R28 R30 R41 R43 R45 R47						
0002B					R49 R51 R53 R57 R59 R61 R63						
0002C					R55 R65						
0003	00031.000	EA		0972946-0054	RES FIX 360 OHM 5 4 .25 W CARBON FILM	RDH - R-25					
0003A					R1 THRU R20, R22 THRU R25,						
0003B					R32 THRU R37, R39						
0005	00003.000	EA		0972946-0076	RES FIX 3.0K OHM 5 4 .25 W CARBON FILM	RDH - R-25					
0005A					R21 R30 R68						
0007	00001.000	EA		J222222-7400	NETWORK SN7400N	-SN7400N					
0007A					U5						
0008	00001.000	EA		J222222-7401	NETWORK SN7401N						
0008A					U4						
0009	00001.000	EA		J222222-7408	NETWORK-SN7408N						
0009A					U8						
0011	00007.000	EA		J222222-7474	NETWORK SN7474N	-SN7474N					
0011A					U1 U6 U9 U16 U17 U18 U20						
0014	00010.000	EA		0972743-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0014A					C3 C6 C9 C10 C13 C16 C19						
DRAFTSMAN DATE C.D. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-3											
APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5003 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-5003		REV AC	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014B					C20 C23 C25						
0020	00002.000	EA		0972946-0053	RES FIX 330 OHM 5 4 .25 W CARBON FILM	RDH - R-25					
0020A					R67 R69						
0022	00014.000	EA		0972946-0083	RES FIX 5.6K OHM 5 4 .25 W CARBON FILM	RDH - R-25					
0022A					R27 R29 R31 R42 R44 R46 R48						
0022B					R54 R56 R58 R60 R62 R64 R66						
0031	00016.000	EA		0972946-0017	RES FIX 10.0 OHM 5 4 .25 W CARBON FILM	RDH - R-25					
0031A					R70 THRU R85						
DRAFTSMAN DATE C.D. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-3											
APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5003 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-5004		REV AC	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945146-0001	PHB-16 I/O DATA MODULE						
0002	00016.000	EA		0972946-0071	RES FIX 1.8K OHM 5 4 .25 W CARBON FILM	RDH - R-25					
0002A					R26 R28 R30 R41 R43 R45 R47						
0002B					R49 R51 R53 R57 R59 R61 R63						
0002C					R65 R55						
0003	00016.000	EA		0972946-0054	RES FIX 360 OHM 5 4 .25 W CARBON FILM	RDH - R-25					
0003A					R1 R3 R5 R7 R9 R11 R13 R15						
0003B					R17 R19 R22 R24 R32 R34 R36						
0003C					R39						
0005	00019.000	EA		0972946-0076	RES FIX 3.0K OHM 5 4 .25 W CARBON FILM	RDH - R-25					
0005A					R2 R4 R6 R8 R10 R12 R14 R16						
0005B					R18 R20 R21 R23 R25 R33 R35						
0005C					R37 R38 R40 R68						
0007	00001.000	EA		J222222-7400	NETWORK SN7400N	-SN7400N					
0007A					U5						
0008	00001.000	EA		J222222-7401	NETWORK SN7401N						
0008A					U4						
0009	00001.000	EA		J222222-7408	NETWORK-SN7408N						
0009A					U8						
0011	00007.000	EA		J222222-7474	NETWORK SN7474N	-SN7474N					
DRAFTSMAN DATE C.D. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-4											
APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5004 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-5004		REV AC	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0011A					U1 U6 U9 U16 U17 U18 U20						
0014	00010.000	EA		0972743-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0014A					C3 C6 C10 C13 C16 C19 C20						
0014B					C9 C23 C25						
0020	00002.000	EA		0972946-0053	RES FIX 330 OHM 5 4 .25 W CARBON FILM	RDH - R-25					
0020A					R67 R69						
0031	00016.000	EA		0972946-0017	RES FIX 10.0 OHM 5 4 .25 W CARBON FILM	RDH - R-25					
0031A					R70 THRU R85						
DRAFTSMAN DATE C.D. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-4											
APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5004 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-5005		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0945146-0001	PMB-16 I/O DATA MODULE						
0002	00016.000	EA		0972946-0071	RES FIX 1.8K OHM 5 % .25 W CARBON FILM	RDH - R-25					
0002A					R26 R28 R30 R41 R43 R45 R47						
0002B					R49 R51 R53 R55 R57 R59 R61						
0002C					R63 R65						
0003	00031.000	EA		0972946-0054	RES FIX 360 OHM 5 % .25 W CARBON FILM	RDH - R-25					
0003A					R1 THRU R20 R22 THRU R25						
0003B					R32 THRU R37 R39						
0005	00003.000	EA		0972946-0076	RES FIX 3.0K OHM 5 % .25 W CARBON FILM	RDH - R-25					
0005A					R21 R38 R68						
0007	00001.000	EA		0222222-7400	NETWORK SN7400N	-SN7400N					
0007A					U5						
0008	00001.000	EA		0222222-7401	NETWORK SN7401N						
0008A					U4						
0009	00001.000	EA		0222222-7408	NETWORK-SN7408N						
0009A					U8						
0011	00007.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N					
0011A					U1 U6 U9 U16 U17 U18 U20						
0014	00010.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%, -20%						
0014A					C3 C6 C9 C10 C13 C16 C19						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-5											
APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5005 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-5005		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014B					C20 C23 C25						
0020	00002.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	RDH - R-25					
0020A					R67 R69						
0022	00014.000	EA		0972946-0083	RES FIX 5.6K OHM 5 % .25 W CARBON FILM	RDH - R-25					
0022A					R27 R29 R31 R42 R44 R46 R48						
0022B					R54 R56 R58 R60 R62 R64 R66						
0031	00016.000	EA		0972946-0017	RES FIX 10.0 OHM 5 % .25 W CARBON FILM	RDH - R-25					
0031A					R70 THRU R85						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-5											
APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5005 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM945145-5006		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0945146-0001	PMB-16 I/O DATA MODULE						
0002	00016.000	EA		0972946-0071	RES FIX 1.8K OHM 5 % .25 W CARBON FILM	RDH - R-25					
0002A					R26 R28 R30 R41 R43 R45 R47						
0002B					R49 R51 R53 R57 R59 R61 R63						
0002C					R65 R55						
0003	00031.000	EA		0972946-0054	RES FIX 360 OHM 5 % .25 W CARBON FILM	RDH - R-25					
0003A					R1 THRU R20,R22 THRU R25,						
0003B					R32 THRU R37,R39						
0005	00003.000	EA		0972946-0076	RES FIX 3.0K OHM 5 % .25 W CARBON FILM	RDH - R-25					
0005A					R21 R38 R68						
0007	00001.000	EA		0222222-7400	NETWORK SN7400N	-SN7400N					
0007A					U5						
0008	00001.000	EA		0222222-7401	NETWORK SN7401N						
0008A					U4						
0009	00001.000	EA		0222222-7408	NETWORK-SN7408N						
0009A					U8						
0011	00007.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N					
0011A					U1 U6 U9 U16 U17 U18 U20						
0014	00010.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%, -20%						
0014A					C3 C6 C9 C10 C13 C16 C19						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-6											
APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5006 AC											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/15/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM945145-5006		REV AC	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014B					C20 C23 C25						
0020	00002.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	RDH - R-25					
0020A					R67 R69						
0022	00014.000	EA		0972946-0083	RES FIX 5.6K OHM 5 % .25 W CARBON FILM	RDH - R-25					
0022A					R27 R29 R31 R42 R44 R46 R48						
0022B					R54 R56 R58 R60 R62 R64 R66						
0031	00016.000	EA		0972946-0017	RES FIX 10.0 OHM 5 % .25 W CARBON FILM	RDH - R-25					
0031A					R70 THRU R85						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 945145-6											
APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM945145-5006 AC											

- NOTES: UNLESS OTHERWISE SPECIFIED;
1. ALL DEVICE TYPES ARE PREFIXED WITH 5N74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS;



00 AND 04 = DEVICE TYPE
 4, 5 AND 6 = PIN NUMBERS
 U6 AND U10 = REFERENCE DESIGNATOR

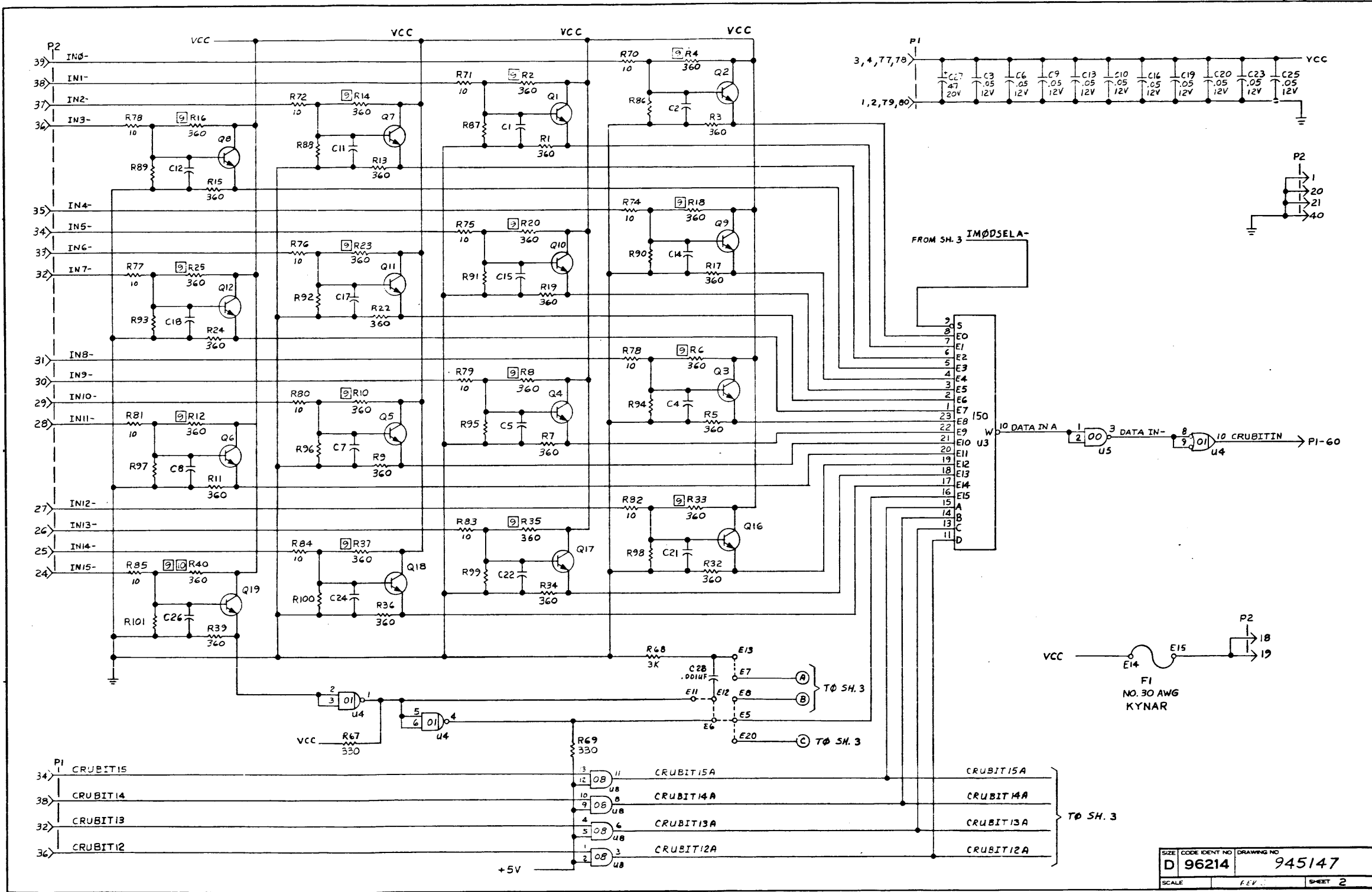
5. ALL RESISTOR 1/4 WATT, 5%
 6. ALL RESISTANCE VALUES ARE IN OHMS
 7. CAPACITANCE VALUES ARE IN MICROFARADS.
 8. ALL TRANSISTORS ARE A5T2222
- VALUE IS 3.0K OHM ON -4 ASSY
 NOT INSTALLED ON -2, -3, -5 AND -6 ASSYS
 NOT INSTALLED ON -1 AND -4 ASSYS
 NOT USED

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	A	ON-ASSY IC'S W/OUT	
	B	ON-ASSY IC'S W/OUT	
	C	ON-ASSY IC'S W/OUT	

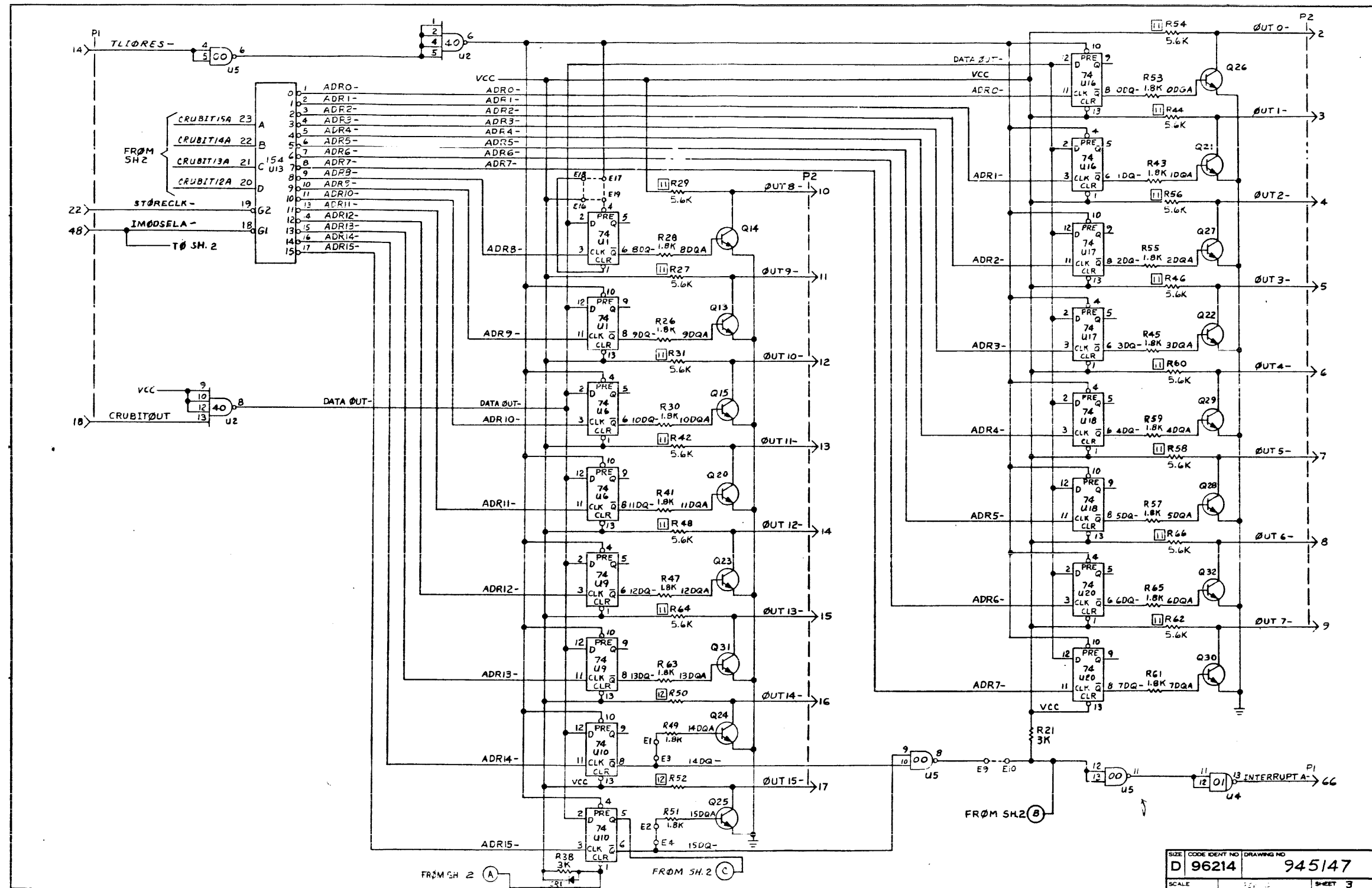
REV STATUS	REV	C	C	C
OF SHEETS	5	1	1	1

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
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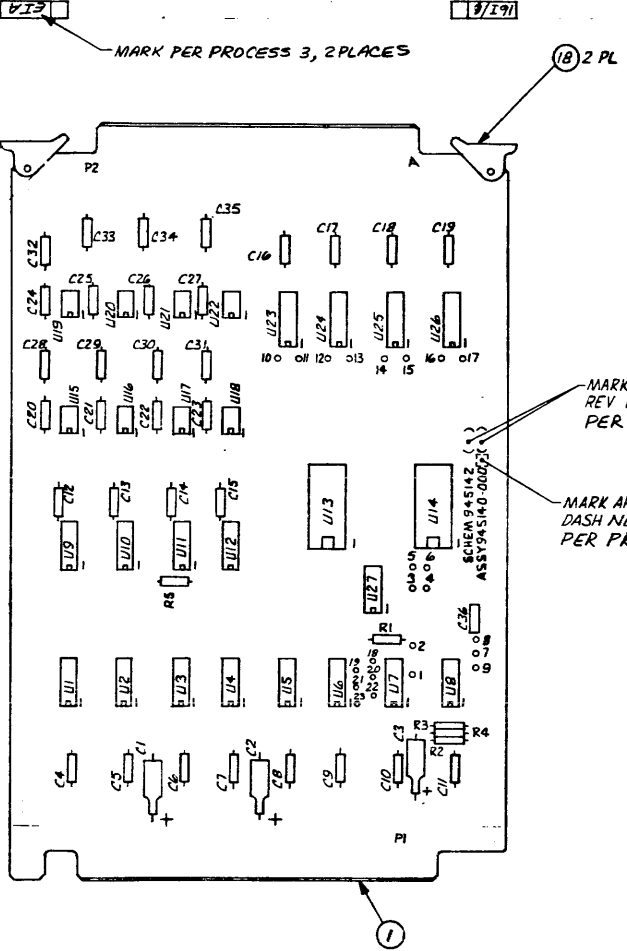
UNLESS OTHERWISE SPECIFIED - REMOVE ALL BURRS AND SHARP EDGES - CONCENTRICITY MACHINED - DIAMETERS ±0.10 FR - DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING - IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY - INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES - TOLERANCES - ANGLES ±1° - 3 PLACE DECIMALS ±0.10 - 2 PLACE DECIMALS ±0.2	DWG DATE 12/14/75	TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas
		ENGR [Signature] 12/14/75		DIAGRAM, LOGIC, DETAILED, 990-16I/O TTL DATA MODULE
HOLE TOLERANCE .013 +.004 .126 +.005 .251 +.006 THRU -.001 THRU -.001 THRU -.001 .125 .250 .500	DETAIL 75%	CONTR NO [Blank]	SIZE CODE IDENT NO DRAWING NO D 96214 945147
.501 +.008 .751 +.010 1.001 +.012 THRU -.001 THRU -.001 THRU -.001 1.750 2.000 2.000	NEXT ASSY USED ON [Blank]	DESIGN ACTIVITY RELEASE [Blank]	SCALE [Blank]



SIZE	CODE IDENT NO	DRAWING NO
D	96214	945147
SCALE	F.V.	SHEET 2



NOTES:
 1. REWORK FOR PWB 945141-1 REV # AND A:
 A. ADD A JUMPER (2LAWG) FROM U11 PIN 9 TO E 21



ZONE	NO.	DESCRIPTION	DATE	APPROVED
A	CN 407715 (D) 9. Ganga (1) ADDED PROCESS 3 AND EJECTOR MARKING TO E1D (2) ADDED PER PROCESS 2 2 PLCS ON E1D	5/13/76	R. J. Bell	
B	CN 417301 (E) 9. Ganga (1) REVISED REV LEVEL BLOCK (2) REV #17 ITEM 15 WAS 972759-0021, (-1 & -2)	9-28-76	J. R. Bell	
C	CN 419539 (D) 9. Ganga (1) UPDATED REV LEVEL BLOCK AND ADDED TEST PROCEDURE	10-20-76	J. R. Bell	
D	CN 420838 (D) R. F. Papp (1) UPDATED REV LEVEL BLK (2) REV LM ITEM 17... QTY WAS AR	1-28-77	R. J. Bell	
E	CN 420460 (C) G. Thorne (1) ITEM 18 WAS 972748-1 (2) UPDATED REV LEVEL	3-18-77	J. R. Bell	
F	CN 424392 (C) L. Toth (1) UPDATED REV LEVEL BLOCK (2) CREATED -0003	6-2-77	J. R. Bell	
G	CN 425115 (C) R. C. Thomas (1) CREATED -5 1-6 LM (2) ADDED NOTE 1 (3) ADDED -5 1-6 TO JUMPER SCHEDULE (4) UPDATED REV LEVEL BLK	11-11-77	J. R. Bell	
H	CN 442736 (C) A. O. G. (1) CHANGED TITLES IN DASH NO BLOCK TO AGREE WITH LM (2) ADDED PIN A DESIGNATION (3) UPDATED REV LEVEL BLOCK	1-9-79	E. W. Long	
J	CN 447531 (C) J. A. D. (1) LM -0001-0002, -0003, -0004, -0005, -0006 DELETED ITEMS 1, 2, 3, 4, 5, 6, 9, 10 + 15 (2) ADDED ITEM 22 TO -5001, -5002, -5003, -5005 + 5006 (3) LM -5001, -5002, -5003, -5005 + 5006 ADDED ITEMS 1, 2, 3, 4, 5, 6, 9, 10 + 15 (4) UPDATED REV LEVEL BLOCK	1-9-79	F. W. Long	
K	CN 447531 (C) J. A. D. (1) LM -1-2-3, -5 1-6 ADDED ITEM 6 (2) LM -5001, -5002, -5003, -5005, -5006 DELETED U9 THRU U12 FROM ITEM 6 (3) UPDATED REV LEVEL BLOCK	4-2-79	E. W. Long	

945140-0006	990 16 I/O EIA D/M L/H INT CONTINUOUS POL	POLLING NOT AFFECTED BY MASK
945140-0005	990 16 I/O EIA D/M H/L INT CONTINUOUS POL	
945140-0003	990 16 I/O EIA D/M L/H INT MASKABLE POL	MASK TRUE INHIBITS POLLING
945140-0002	990 16 I/O EIA D/M H/L INT MASKABLE POL	
945140-0001	990 16 I/O EIA D/M NO INTERRUPT	
PART NO.	DESCRIPTION	

JUMPER SCHEDULE				
-0001	-0002	-0003	-0005	-0006
E14 TO E15	E14 TO E15	E14 TO E15	E14 TO E15	E14 TO E15
E16 TO E17	E16 TO E17	E16 TO E17	E16 TO E17	E16 TO E17
E12 TO E13	E12 TO E13	E12 TO E13	E12 TO E13	E12 TO E13
E10 TO E11	E10 TO E11	E10 TO E11	E10 TO E11	E10 TO E11
E5 TO E6	E1 TO E2	E1 TO E2	E1 TO E2	E1 TO E2
E7 TO E8	E6 TO E8	E7 TO E8	E6 TO E8	E6 TO E8
E4 TO E9	E4 TO E9	E4 TO E9	E4 TO E9	E4 TO E9
E3 TO E19	E3 TO E19	E20 TO E5	E20 TO E5	E20 TO E5
E5 TO E18	E5 TO E18			

REV LEVEL	TEST PROCEDURE 945143-9901	* A	A	B	C	C	C	C
	PWB 945141-0001	*	*	*	A	A	A	B
	CSIC DIA 2RAM 945142-9901	*	*	*	*	*	A	B
	ASSY 945145-0001; 0002	*	A	B	C	D	E	F

PROCESSES:
 1. SOLDER PER F-127, METHOD I AND/ OR F-124
 2. MARK PER F-100, METHOD II, CLASS I, HEIGHT .09, COLOR BLACK
 3. MARK PER F-100, METHOD III, CLASS 12, COLOR BLACK, TYPE 6

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 FIM	DIMENSIONS ARE IN INCHES	TOLERANCES ANGLES 15°
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ± 0.10	2 PLACE DECIMALS ± 0.2
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	HOLE TOLERANCE	DATE	
	.013 - .064 1/25 ± .006	1-28-76	
	THRU - .001 THRU - .001 THRU - .001	DATE	
	1/25 ± .006	1-28-76	
	501 - .008 THRU - .010 THRU - .012	DESIGN ACTIVITY RELEASE	
	750 - .001 THRU - .001 THRU - .001	DATE	
		1-28-76	

PARTS LIST		NOMENCLATURE OR DESCRIPTION		PROCUREMENT SPECIFICATION	
QTY REQD	ITEM NO	990 16 I/O EIA DATA MODULE			
PART OR IDENTIFYING NUMBER		DRAWING NO		DRAWING NO	
		D 96214		945140	
		SCALE 1/1		SHEET	

TEXAS INSTRUMENTS INCORPORATED		DATE 03/02/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945140-0003		REV K	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0006	00064.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N					
0006A					U9,U10,U11,U12						
0007	00001.000	EA		0222222-7150	NETWORK SN74150N						
0007A					U14						
0008	00001.000	EA		0222222-7154	NETWORK SN74154N	-SN74154N					
0008A					U13						
0011	00003.000	EA		0972946-0076	RES FIX 3.0K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0011A					R1 R4 R5						
0012	00002.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0012A					R2 R3						
0013	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10% 200V	QPL	-M39014/01-1397				
0013A					C36						
0014	00001.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 % 20 VOLT	QPL	-M39003/1-2295				
0014A					C3						
0016	00002.000	EA		0972924-0019	CAP FIX TANT SOLID 22 MFD 10 % 35 VOLT	QPL	-M39003/1-2306				
0016A					C1 C2						
0017	00000.010	FT		0417836-0006	WIRE HOOKUP B-22 AWG SOLID WHITE	JUD	- HH0113				
0018	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0019	REF	EA		0945142-9901	LOGIC-16 I/O EIA DATA MODULE	NON	-E				
0020	REF	EA		0945143-9901	TEST PROCEDURE-16 I/O EIA DATA MODULE						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 16I/O EIA D/M L/H INT MASKABLE POL APPD-ING DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0945140-0003 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/02/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945140-0003		REV K	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021	REF	EA		0945144-9901	SPECIFICATION-16 I/O EIA DATA MODULE						
0022	00001.000	EA		0945140-5003	AUTO-INSERTED PARTS LIST FOR 945140-0003						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 16I/O EIA D/M L/H INT MASKABLE POL APPD-ING DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0945140-0003 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/02/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945140-0005		REV K	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0006	00064.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N					
0006A					U9,U10,U11,U12						
0007	00001.000	EA		0222222-7150	NETWORK SN74150N						
0007A					U14						
0008	00001.000	EA		0222222-7154	NETWORK SN74154N	-SN74154N					
0008A					U13						
0011	00003.000	EA		0972946-0076	RES FIX 3.0K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0011A					R1 R4 R5						
0012	00002.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0012A					R2 R3						
0013	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10% 200V	QPL	-M39014/01-1397				
0013A					C36						
0014	00001.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 % 20 VOLT	QPL	-M39003/1-2295				
0014A					C3						
0016	00002.000	EA		0972924-0019	CAP FIX TANT SOLID 22 MFD 10 % 35 VOLT	QPL	-M39003/1-2306				
0016A					C1 C2						
0017	00000.010	FT		0417836-0006	WIRE HOOKUP B-22 AWG SOLID WHITE	JUD	- HH0113				
0018	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0019	REF	EA		0945142-9901	LOGIC-16 I/O EIA DATA MODULE	NON	-E				
0020	REF	EA		0945143-9901	TEST PROCEDURE-16 I/O EIA DATA MODULE						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 16I/O EIA D/M L/H INT CONTINUOUS POL APPD-ING DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0945140-0005 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/02/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945140-0005		REV K	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021	REF	EA		0945144-9901	SPECIFICATION-16 I/O EIA DATA MODULE						
0022	00001.000	EA		0945140-5003	AUTO-INSERTED PARTS LIST FOR 945140-0003						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 16I/O EIA D/M L/H INT CONTINUOUS POL APPD-ING DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0945140-0005 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/02/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945140-0006		REV K	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0006	00004.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N					
0006A					U9,U10,U11,U12						
0007	00001.000	EA		0222222-7150	NETWORK SN74150N						
0007A					U14						
0008	00001.000	EA		0222222-7154	NETWORK SN74154N	-SN74154N					
0008A					U13						
0011	00003.000	EA		0972946-0076	RES FIX 3.0K OHM 5 % .25 W CARBON FILM	RDH	- R-25				
0011A					R1 R4 R5						
0012	00002.000	FA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	RDH	- R-25				
0012A					R2 R3						
0013	00001.000	EA		0972920-0397	CAP FIX CERAMIC .001 UF 10% 200V	QPL	-M39014/01-1397				
0013A					C36						
0014	00001.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 % 20 VOLT	QPL	-M39003/1-2295				
0014A					C3						
0016	00002.000	EA		0972924-0019	CAP FIX TANT SOLID 22 MFD 10 % 35 VOLT	QPL	-M39003/1-2306				
0016A					C1 C2						
0017	00000.010	FT		0417836-0006	WIRE HOOKUP B-22 AWG SOLID WHITE	JUD	- MHC113				
0018	00002.000	EA		0533044-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0019	REF	FA		0945142-9901	LOGIC-16 I/O EIA DATA MODULE	NON	-E				
0020	REF	EA		0945143-9901	TEST PROCEDURE-16 I/O EIA DATA MODULE						
DRAFTSMAN DATE CED. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 16 I/O EIA D/M L/H INT CONTINUOUS PDL											
APPR. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0945140-0006 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/02/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945140-0006		REV K	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021	REF	EA		0945144-9901	SPECIFICATION-16 I/O EIA DATA MODULE						
0022	00001.000	EA		0945140-5006	AUTO-INSERTED PARTS LIST FOR 945140-0006						
DRAFTSMAN DATE CED. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 16 I/O EIA D/M L/H INT CONTINUOUS PDL											
APPR. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0945140-0006 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/02/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945140-9001		REV K	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945141-0001	PWB-16 I/O EIA DATA MODULE	NON	-E				
0002	00001.000	EA		0222222-7401	NETWORK SN7401N						
0002A					U8						
0003	00002.000	EA		0222222-7404	NETWORK SN7404N						
0003A					U6,U7						
0004	00001.000	EA		0222222-7408	NETWORK-SN7408N						
0004A					U27						
0005	00001.000	EA		0222222-7437	NETWORK SN7437N						
0005A					U5						
0006	00004.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N					
0006A					U1 THRU U4						
0009	00008.000	EA		0537948-0001	NETWORK SN75150P	TI	-SN75150P				
0009A					U15 THRU U22						
0010	00004.000	EA		0537947-0001	NETWORK SN75154N	TI	-SN75154N				
0010A					U23 THRU U26						
0015	00032.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0015A					C4 THRU C35						
DRAFTSMAN DATE CED. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 945140-0001											
APPR. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0945140-9001 K											

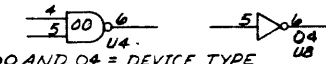
TEXAS INSTRUMENTS INCORPORATED		DATE 03/02/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945140-5002		REV K	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945141-0001	PWB-16 I/O EIA DATA MODULE	NON	-E				
0002	00001.000	EA		0222222-7401	NETWORK SN7401N						
0002A					U8						
0003	00002.000	EA		0222222-7404	NETWORK SN7404N						
0003A					U6 U7						
0004	00001.000	EA		0222222-7408	NETWORK-SN7408N						
0004A					U27						
0005	00001.000	EA		0222222-7437	NETWORK SN7437N						
0005A					U5						
0006	00004.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N					
0006A					U1 THRU U4						
0009	00008.000	EA		0537948-0001	NETWORK SN75150P	TI	-SN75150P				
0009A					U15 THRU U22						
0010	00004.000	EA		0537947-0001	NETWORK SN75154N	TI	-SN75154N				
0010A					U23 THRU U26						
0015	00032.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0015A					C4 THRU C35						
DRAFTSMAN DATE CED. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 945140-0002											
APPR. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0945140-5002 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/02/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945140-5003		REV K
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0945141-0001	PWB-16 I/O EIA DATA MODULE	NON -E				
0002	00001.000	EA		0222222-7401	NETWORK SN7401N					
0002A					U8					
0003	00002.000	EA		0222222-7404	NETWORK SN7404N					
0003A					U6,U7					
0004	00001.000	EA		0222222-7408	NETWORK-SN7408N					
0004A					U27					
0005	00001.000	EA		0222222-7437	NETWORK SN7437N					
0005A					U5					
0006	00004.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N				
0006A					U1 THRU U4					
0009	00008.000	EA		0537948-0001	NETWORK SN75150P	TI -SN75150P				
0009A					U15 THRU U22					
0010	00004.000	EA		0537947-0001	NETWORK SN75154N	TI -SN75154N				
0010A					U23 THRU U26					
0015	00032.000	EA		0972763-0021	CAP.,FIXED, AXIAL LEAD, .047 UF, +80%, -20%					
0015A					C4 THRU C35					
DRAFTSMAN: DATE: CED DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO-INSERTED PARTS LIST FOR 945140-0003 APP'D: DATE: APP'D PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM 0945140-5003 K										

TEXAS INSTRUMENTS INCORPORATED		DATE 03/02/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945140-5005		REV K
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0945141-0001	PWB-16 I/O EIA DATA MODULE	NON -E				
0002	00001.000	EA		0222222-7401	NETWORK SN7401N					
0002A					U8					
0003	00002.000	EA		0222222-7404	NETWORK SN7404N					
0003A					U6,U7					
0004	00001.000	EA		0222222-7408	NETWORK-SN7408N					
0004A					U27					
0005	00001.000	EA		0222222-7437	NETWORK SN7437N					
0005A					U5					
0006	00004.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N				
0006A					U1 THRU U4					
0009	00008.000	EA		0537948-0001	NETWORK SN75150P	TI -SN75150P				
0009A					U15 THRU U22					
0010	00004.000	EA		0537947-0001	NETWORK SN75154N	TI -SN75154N				
0010A					U23 THRU U26					
0015	00032.000	EA		0972763-0021	CAP.,FIXED, AXIAL LEAD, .047 UF, +80%, -20%					
0015A					C4 THRU C35					
DRAFTSMAN: DATE: CED DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO-INSERTED PARTS LIST FOR 945140-0005 APP'D: DATE: APP'D PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM 0945140-5005 K										

TEXAS INSTRUMENTS INCORPORATED		DATE 03/02/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945140-5006		REV K
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0945141-0001	PWB-16 I/O EIA DATA MODULE	NON -E				
0002	00001.000	EA		0222222-7401	NETWORK SN7401N					
0002A					U8					
0003	00002.000	EA		0222222-7404	NETWORK SN7404N					
0003A					U6,U7					
0004	00001.000	EA		0222222-7408	NETWORK-SN7408N					
0004A					U27					
0005	00001.000	EA		0222222-7437	NETWORK SN7437N					
0005A					U5					
0006	00004.000	EA		0222222-7474	NETWORK SN7474N	-SN7474N				
0006A					U1 THRU U4					
0009	00008.000	EA		0537948-0001	NETWORK SN75150P	TI -SN75150P				
0009A					U15 THRU U22					
0010	00004.000	EA		0537947-0001	NETWORK SN75154N	TI -SN75154N				
0010A					U23 THRU U26					
0015	00032.000	EA		0972763-0021	CAP.,FIXED, AXIAL LEAD, .047 UF, +80%, -20%					
0015A					C4 THRU C35					
DRAFTSMAN: DATE: CED DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO-INSERTED PARTS LIST FOR 945140-0006 APP'D: DATE: APP'D PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM 0945140-5006 K										

- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES ARE PREFIXED WITH S1174
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 5 OF ALL 16-PIN IC'S
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



00 AND 04 = DEVICE TYPE
 4, 5, AND 6 = PIN NUMBERS
 U4 AND U8 = REFERENCE DESIGNATORS

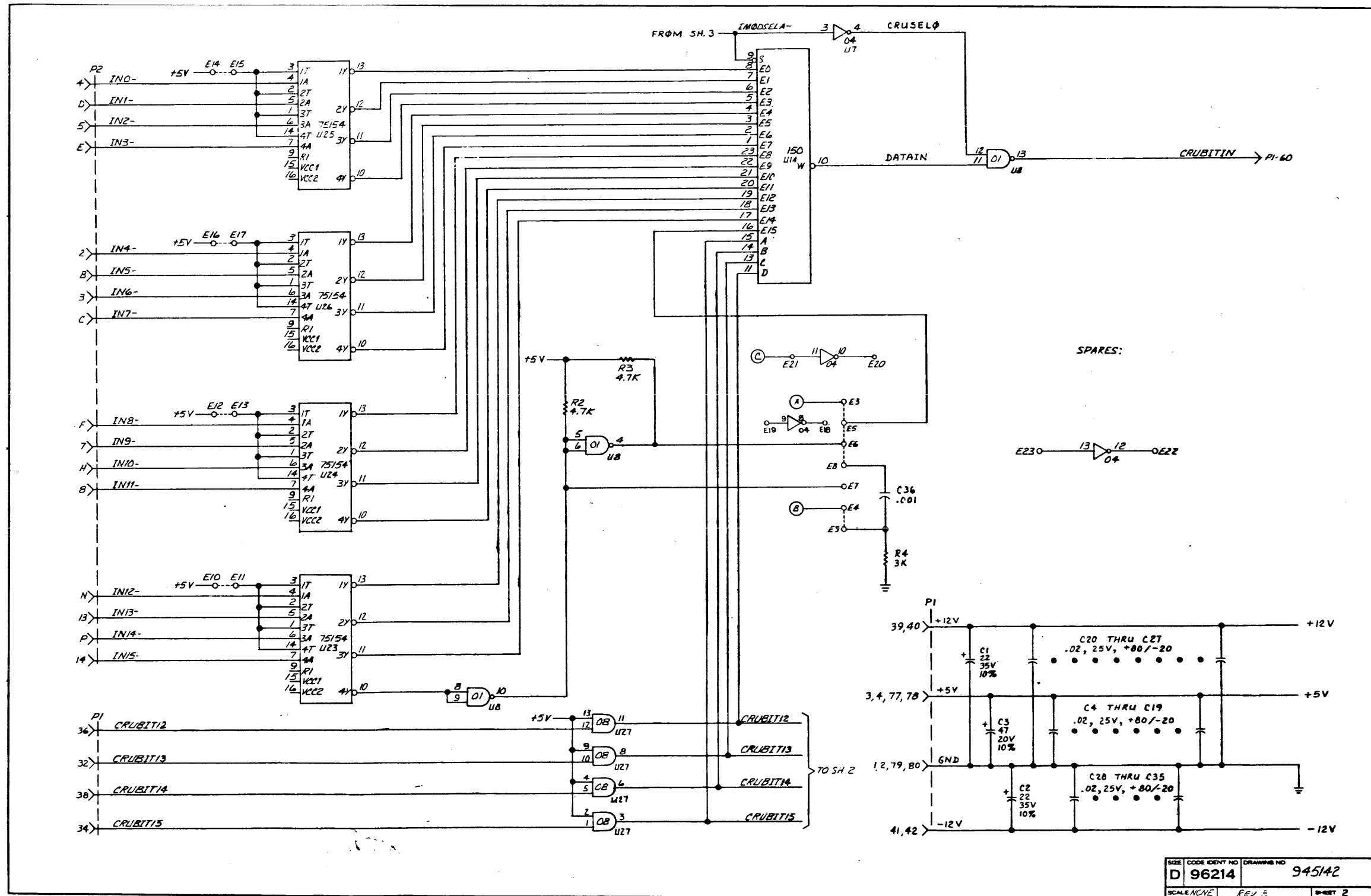
5. ALL RESISTOR ARE 1/4WATT 5%
6. CAPACITORS VALUES ARE IN MICROFARADS

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CHANGE FROM 945421-9703	11/16/75	
B		CHANGE FROM 945421-9703	11/16/75	

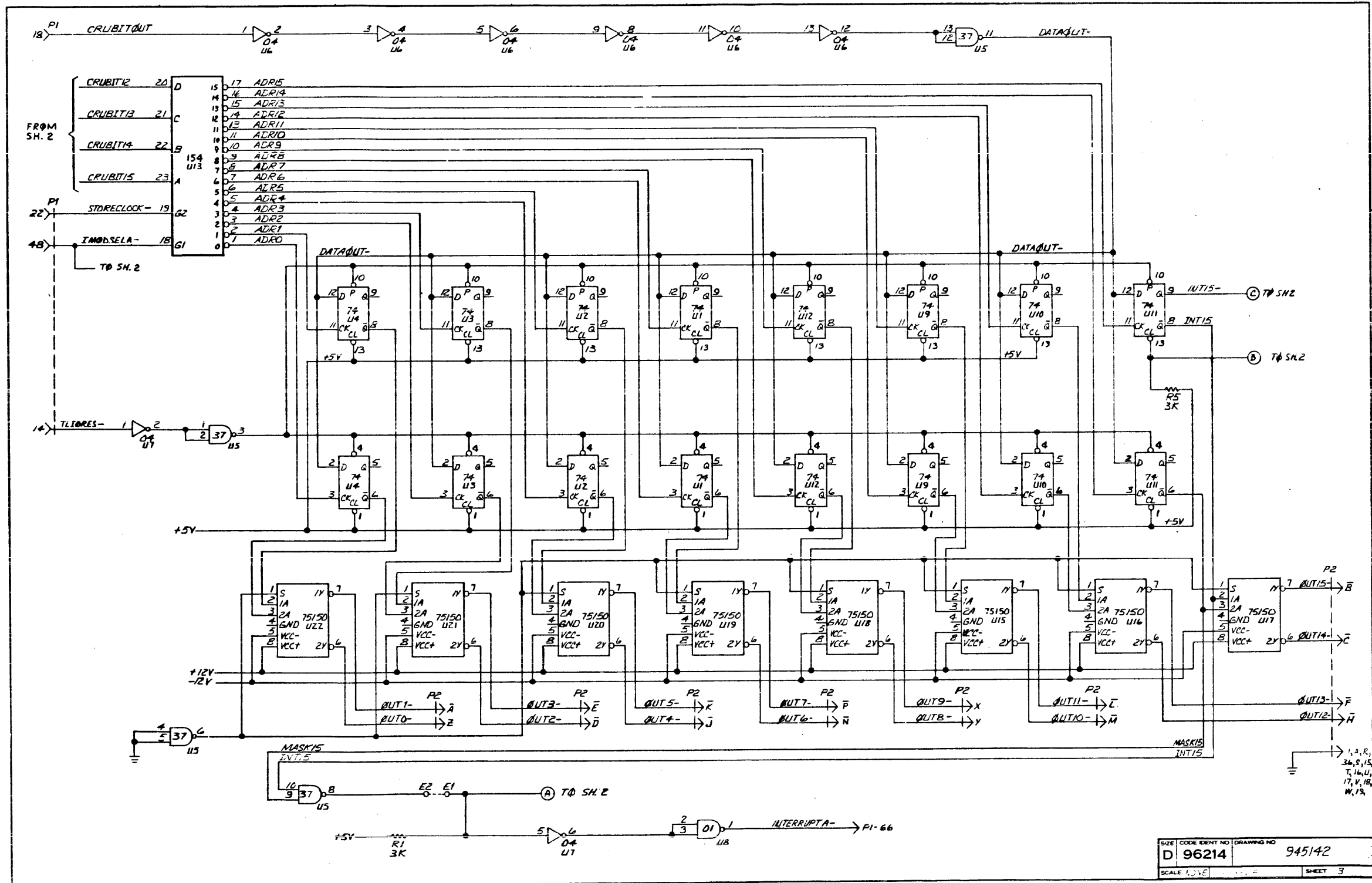
REV STATUS	REV	B	B	B
OF SHEETS	SHEET	1	2	3

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST					
				DWNL DATE 11/16/75 CK- KRELL 11-15-75 ENGR. [Signature] QA [Signature] APVD [Signature] DWTN NO. 2112-1 DESIGN ACTIVITY RELEASE	TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas
				LOGIC DIAGRAM - 990 16 I/O EIA DATA MODULE	SIZE CODE IDENT NO DRAWING NO D 96214 945142
				SCALE A1:1	SHEET 1 OF 3

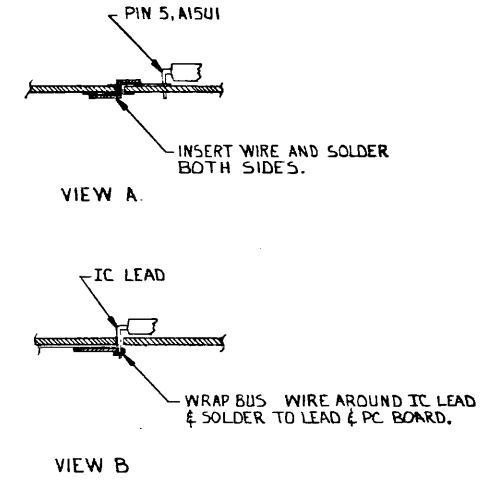
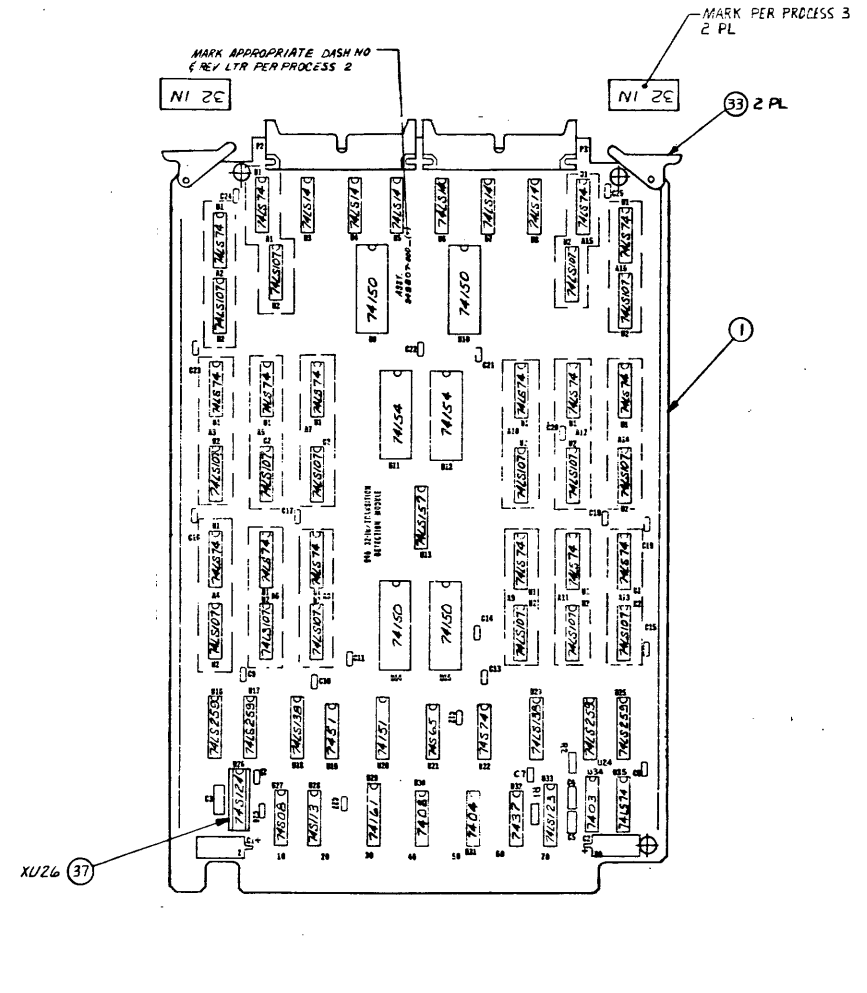
UNLESS OTHERWISE SPECIFIED			UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			DIMENSIONS ARE IN INCHES ANGLES 31° TOLERANCES 3 PLACE DECIMALS ± .010 2 PLACE DECIMALS ± .02		
HOLE TOLERANCE .013 - .004 126 - .008 251 - .008 THRU - .001 THRU - .001 THRU - .001 .125 - .250 .250 - .500			NEXT ASSY USED ON APPLICATION		



SIZE	CODE IDENT NO	DRAWING NO
D	96214	945142
SCALE NONE	REV 5	SHEET 2



NOTES: UNLESS OTHERWISE SPECIFIED:
 I. REWORK ON REV. A¹ PCB ONLY:
 INSERT #24 BUS WIRE THRU PLATED HOLE NEAR PIN 5 OF A15U1
 (SEE VIEW A). WRAP IC PIN WITH #24 BUS WIRE AND SOLDER
 TO PC RUN ON BOARD AT PIN 1 OF U12, PIN 10 OF A3U1 AND PIN
 11 OF A3U1 (SEE VIEW B).



REV	DESCRIPTION	DATE	APPROVED
A	CN 99222 (1) 1/1 (1) ADDED NOTE 1 & VIEWS A+B (2) UPDATED REV. LEVEL BLOCK	4-25-77	L. King
E	CN 41324 (1) 1/1 (1) ADDED TEST PROCEDURE TO REV LEVEL BLK (2) UPDATED REV. LEVEL BLOCK	8-25-77	L. King
C	CN 99222 (1) 1/1 (1) ADDED ITEM 37 TO LTR & FID (1) UPDATED REV LEVEL BLOCK	9-16-77	L. King
D	CN 91295 (1) 1/1 (1) ADDED REV LEVEL BLOCK	2-9-78	L. King
E	CN 430 (1) 1/1 (1) ADDED (1) LTR OF ITEM 29 WAS 972946-009 (1) (2) PIN ITEM 30 WAS 972946-008 (1) (3) PIN ITEM 13 WAS 972793-000 (1) (4) UPDATED REV LEVEL BLOCK	8-25-78	L. King

3	MARK	ICC-07	71	COLOR BLACK, TYPE G	TEST PROCEDURE 949803	*	*	*	*
2	MARK	100-02	21	HEIGHT .09, COLOR BLACK	LOGIC 949805-3901	*	*	*	A B
1	S.S.R	1E7-01 OF 124	20		PWB 949806-0001	*	A	B	C D D
SEQ	IDENT	F SPEC	NO	ADDITIONAL	NOTES	CLASSIFICATION			

QTY	ITEM NC	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
<ul style="list-style-type: none"> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES - 1° 3 PLACE DECIMALS ± 0.10 2 PLACE DECIMALS ± 0.2 INTERPRET DRAWING PER MIL-1000 REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIM DIMENSIONAL LIMITS APPLY BEFORE PROCESSES PARENTHEICAL INFO FOR REF ONLY 					
GEN USE 7506			DATE 1-21-77 DRAWN BY L. King CHECKED BY L. King DATE 9/25/77 CONTR L. King TEXAS INSTRUMENTS INCORPORATED Dallas, Texas 32-INPUT/TRANSITION DETECTION MODULE D 96214 949807		
NEXT ASSY USED ON			APPLICATION		
HOLE TOLERANCE .013 thru .004 126 thru .005 251 thru .008 .125 thru .001 250 thru .001 500 thru .001 .501 thru .008 751 thru .010 1001 thru .012 750 thru .001 1000 thru .001 2000 thru .001					

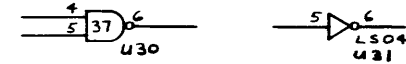
TEXAS INSTRUMENTS INCORPORATED		DATE 03/09/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0949807-0001		REV E	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0949806-0001	PWB, 32-IN/TRANSITION DETECTION MODULE						
0002	00001.000	EA		0222222-7404	NETWORK SN7404N						
0002A					U31						
0003	00001.000	EA		0222222-7403	NETWORK SN7403N						
0003A					U34						
0004	00001.000	EA		0222222-7408	NETWORK-SN7408N						
0004A					U30						
0005	00001.000	EA		0222222-7437	NETWORK SN7437N						
0005A					U32						
0006	00001.000	EA		0222222-7451	NETWORK SN7451N	-SN7451N					
0006A					U19						
0007	00006.000	EA		0972784-0002	NETWORK SN74LS14N						
0007A					U3 THRU U8						
0008	00001.000	EA		0219402-7465	NETWORK SN74S45N						
0008A					U21						
0009	00017.000	EA		0972900-7474	NETWORK SN74LS74N						
0009A					A1U1 THRU A1U1, U35						
0010	00001.000	EA		0219402-7474	NETWORK SN74S74N						
0010A					U22						
0011	00016.000	EA		0996399-0001	IC, SN74LS107N DUAL-NEGATIVE-EDGE	001295-SN74LS107N					
DRAFTSMAN DATE 3-15-78 APD: JMG DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. 7516 TITLE 990 32-INPUT/TRANSITION DETECTION MODULE PART NUMBER LM0949807-0001 REV E											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/09/78		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0949807-0001		REV E	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0011A					A1U2 THRU A1U2						
0012	00001.000	EA		0219402-7113	NETWORK SN74S113N	001295-SN74S113N					
0012A					U28						
0013	00001.000	EA		0222222-7123	NETWORK SN74123N						
0013A					U33						
0014	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N					
0014A					U18 U23						
0015	00004.000	EA		0222222-7150	NETWORK SN74150N						
0015A					U9 U10 U14 U15						
0016	00001.000	EA		0222222-7151	NETWORK SN74151N						
0016A					U20						
0017	00002.000	EA		0222222-7154	NETWORK SN74154N	-SN74154N					
0017A					U11 U12						
0018	00001.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0018A					U13						
0019	00001.000	EA		0222222-7161	NETWORK SN74161N	-SN74161N					
0019A					U29						
0020	00004.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N					
0020A					U16 U17 U24 U25						
0021	00001.000	EA		0219402-7408	NETWORK SN74S08N	TI- -SN74S08N					
DRAFTSMAN DATE 3-15-78 APD: JMG DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. TITLE 990 32-INPUT/TRANSITION DETECTION MODULE PART NUMBER LM0949807-0001 REV E											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/09/78		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0949807-0001		REV E	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021A					U27						
0022	00001.000	EA		0219402-7124	NETWORK SN74S124N						
0022A					U24						
0023	00002.000	EA		0972706-0004	HEADER, CONNECTOR 1 AMP RIGHT ANGLE	055101-3494-1002					
0023A					P2 P3						
0024	00002.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 % 20 VOLT	QPL -M39033/1-2295					
0024A					C1 C2						
0025	00022.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0025A					C6 THRU C27						
0026	00001.000	EA		0972926-0012	CAP FIX MICA 500V 24.0 PF 5 %	QPL -CM04E240J00					
0026A					C3						
0027	00001.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 % 200 V	QPL -M39014/01-1379					
0027A					C4						
0028	00001.000	EA		0972929-0391	CAP FIX CERAMIC 470 PF 10 % 200 V	QPL -M39014/01-1391					
0028A					C5						
0029	00001.000	EA		0972946-0104	RES FIX 43 K OHM 5 % .25 W CARBON FILM	ROH - R-25					
0029A					R1						
0030	00001.000	EA		0972946-0092	RES FIX 13 K OHM 5 % .25 W CARBON FILM	RUH - R-25					
0030A					R2						
0033	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
DRAFTSMAN DATE 3-15-78 APD: JMG DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. TITLE 990 32-INPUT/TRANSITION DETECTION MODULE PART NUMBER LM0949807-0001 REV E											

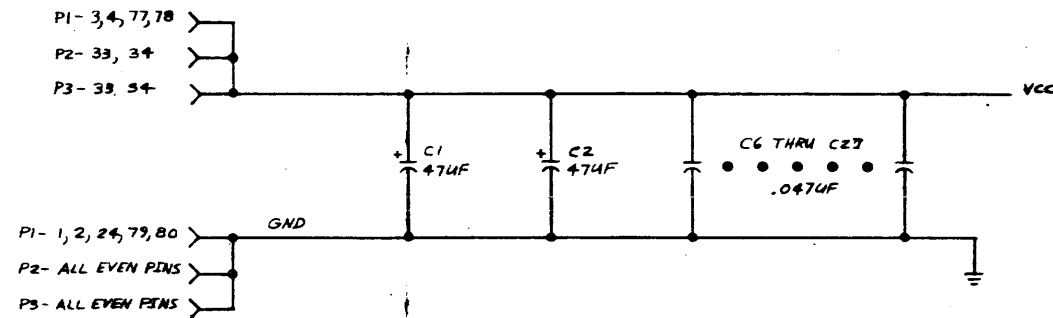
TEXAS INSTRUMENTS INCORPORATED		DATE 03/09/78		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0949807-0001		REV E	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0034	REF	EA		0949805-9901	LOGIC, 32-IN/TRANSITION DETECTION MODULE						
0035	REF	EA		0949808-9901	TEST PROC, 32-IN/TRANSITION DETECTION						
0036	REF	EA		0949809-9901	SPEC, 32-IN/TRANSITION DETECTION MODULE						
0037	00001.000	EA		0539544-0002	SOCKET, 16PIN IC LOW PROFILE SOLDER TAIL	TI -C93-16-02					
0037A					KU26						
DRAFTSMAN DATE 3-15-78 APD: JMG DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. TITLE 990 32-INPUT/TRANSITION DETECTION MODULE PART NUMBER LM0949807-0001 REV E											

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. ALL DEVICE TYPES ARE PREFIXED WITH SN74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S, PIN 8 OF ALL 16-PIN IC'S, AND PIN 18 OF ALL 24-PIN IC'S.
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S, AND PIN 24 OF ALL 24-PIN IC'S.
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



37 AND LS04 - DEVICE TYPE
 5, 37, AND 6 - PIN NUMBERS
 U30 AND U31 - REFERENCE DESIGNATORS

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		244555(0) - 11/4/77	1-12-77
B		CN430010(C)H - 3/8/78	3-9-78



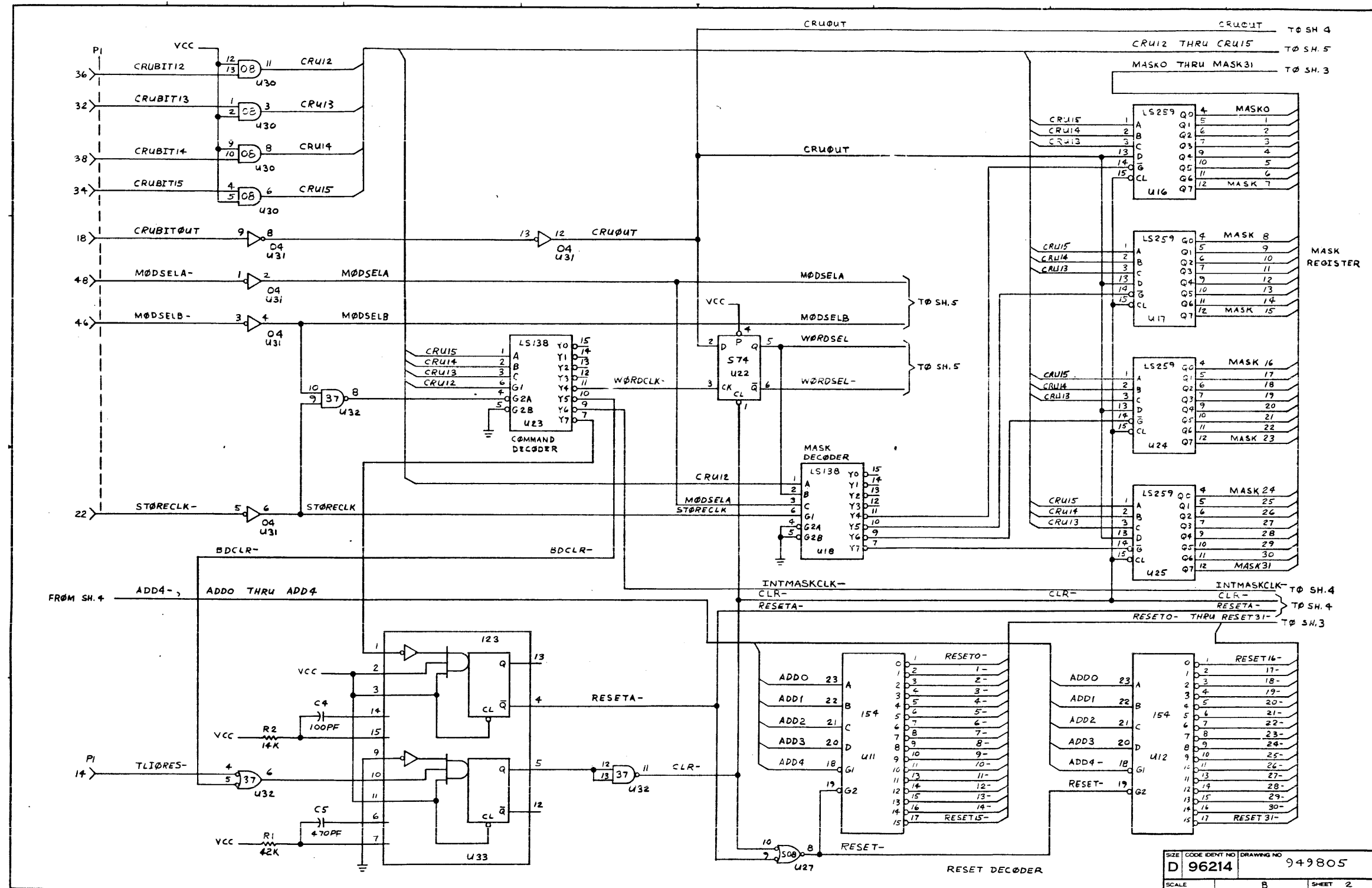
REV	STATUS	REV	B	B	A	QTY	ITEM NO	CODE	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	REQUIREMENT SPECIFICATION
1		2		3	4	5					

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIMENSIONS .010 PIR	DIMENSIONS ARE IN INCHES	ANGLES 21°
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	TOLERANCES	3 PLACE DECIMALS ±.010
INTERPRET DRAWINGS IN ACCORDANCE WITH MIL-STD-100		2 PLACE DECIMALS ±.02	

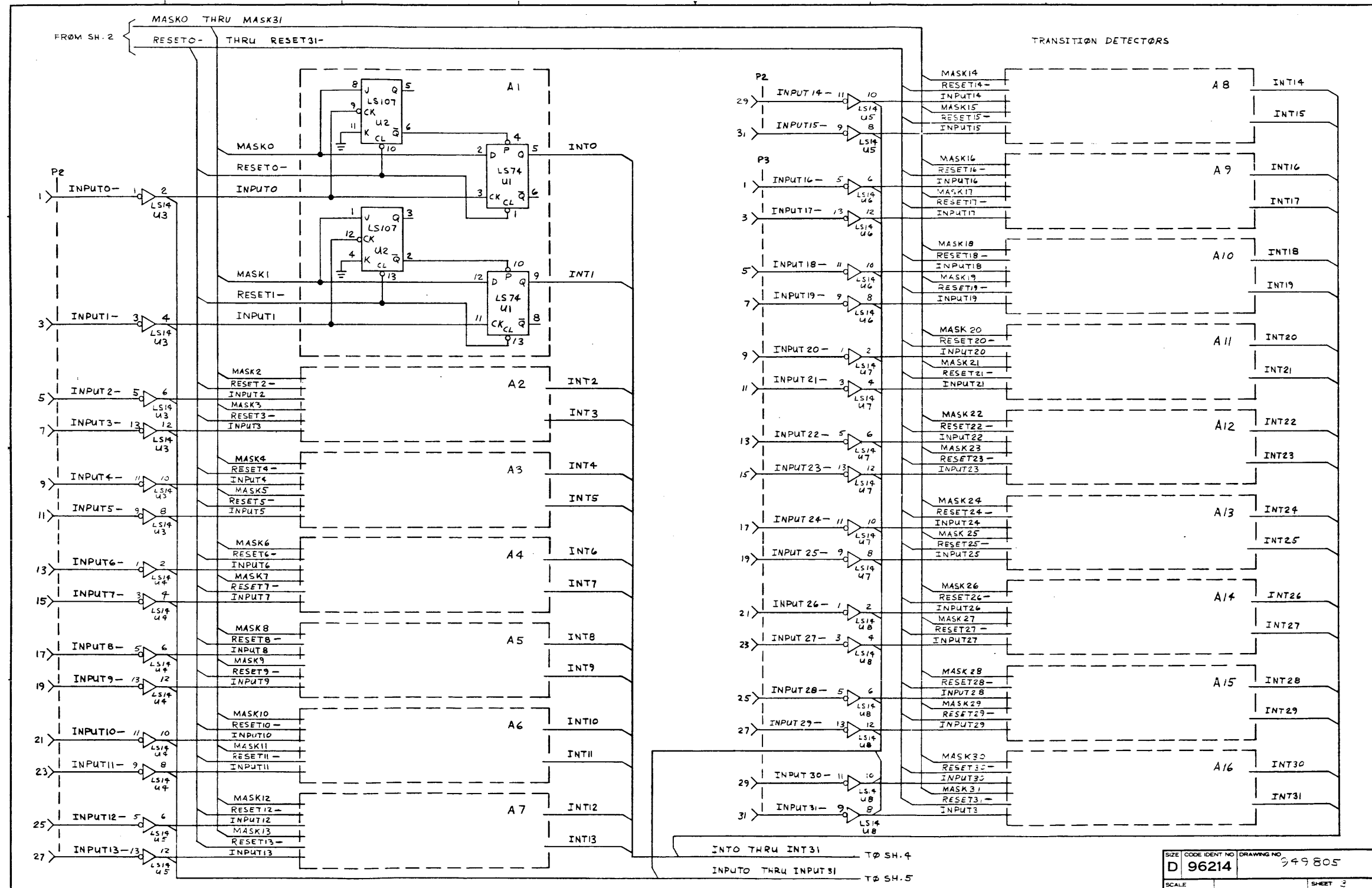
HOLE TOLERANCE	
.015 +.004	-.120 +.008
.125 +.001	-.250 +.001
.500 +.003	1.000 +.012
1.000 +.003	2.000 +.001

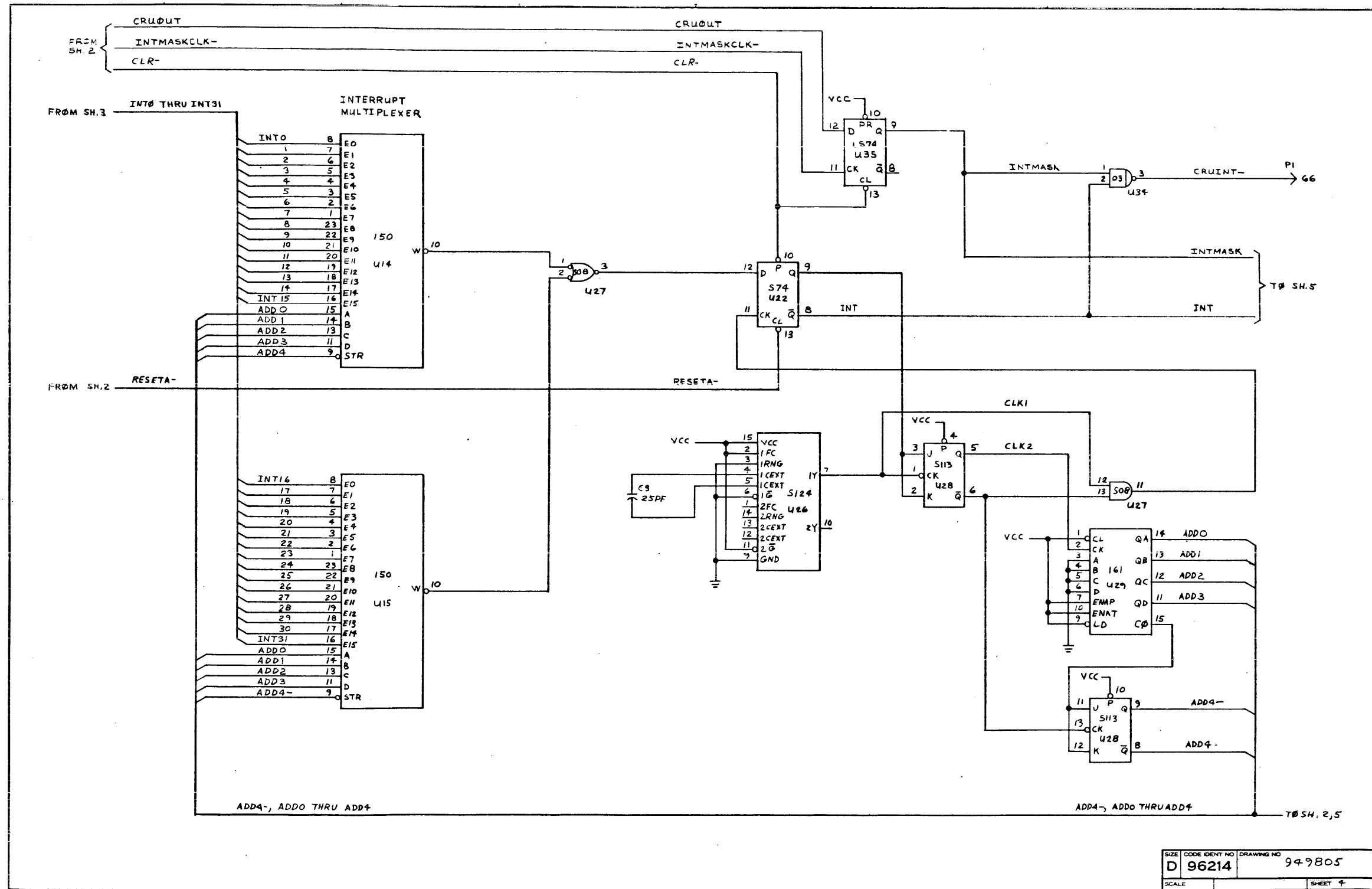
DATE	CHK	ENGR	APVD	CONTR NO
12 7 77	C. KELLER	2/15/77		
3-24-77				
3/14/77				

		LOGIC DIAGRAM, 990 32-IN/TRANSITION DETECTION MODULE
SIZE	CODE	DRAWING NO
D	96214	949805
SCALE		SHEET 1 OF 5

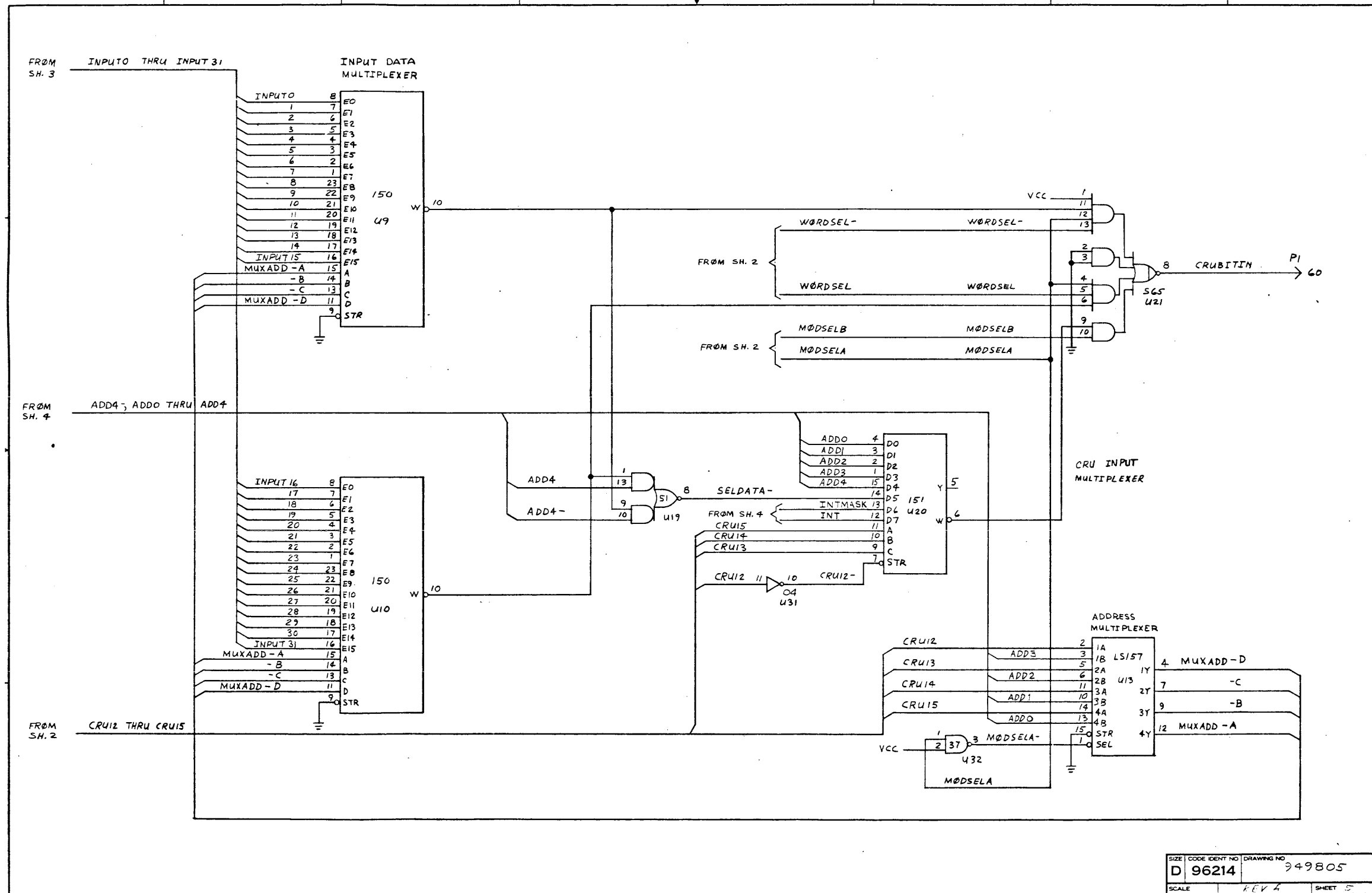


SIZE CODE IDENT NO DRAWING NO
D 96214 949805
 SCALE B SHEET 2





SIZE	CODE IDENT NO	DRAWING NO
D	96214	949805
SCALE		SHEET 4



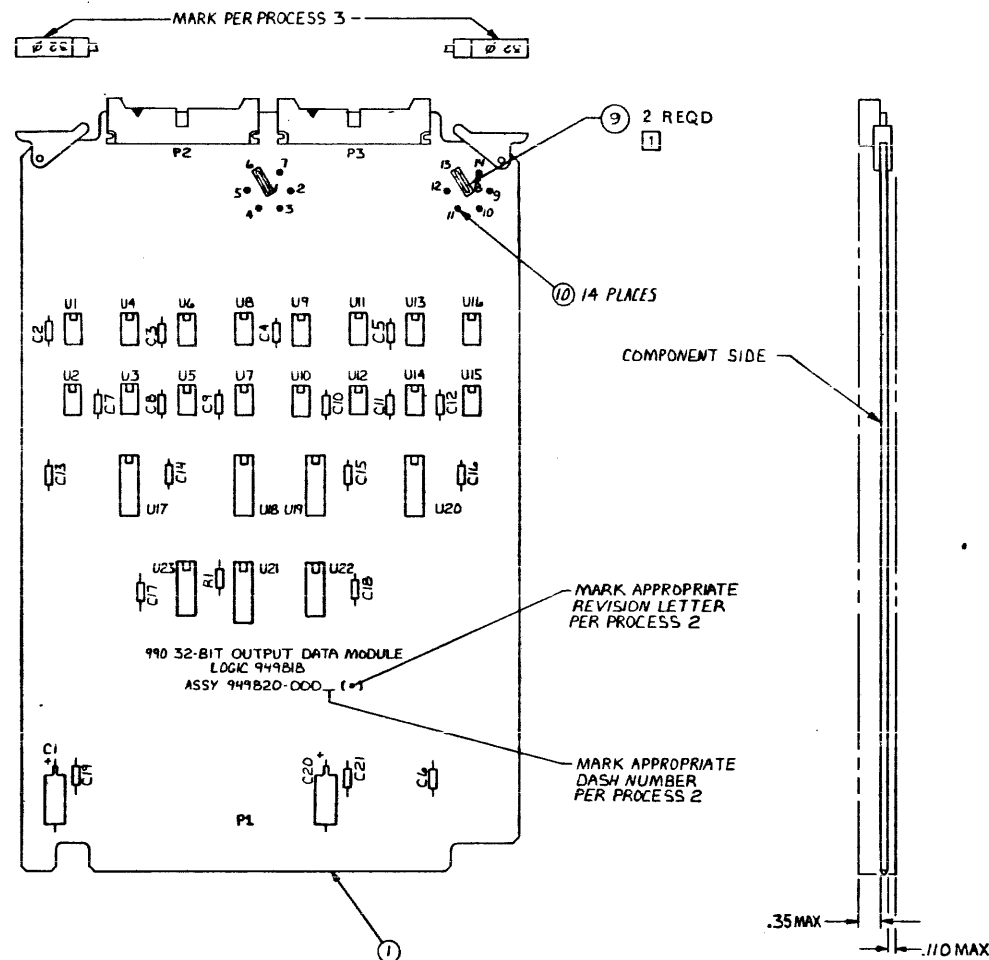
SIZE	CODE IDENT NO	DRAWING NO
D	96214	349805
SCALE	REV 4	SHEET 5

NOTES: UNLESS OTHERWISE SPECIFIED:

1. INSTALL JUMPER PLUGS ITEM 9 IN THE FOLLOWING LOCATIONS: 1 TO 6, 8 TO 13

2. OUTPUTS ARE NORMALLY ON-OFF TRANSISTOR SWITCHES SINKING UP TO 200MA AND HOLDING OFF UP TO 50V. HOWEVER, A PROVISION IS MADE ON THE BOARD TO ADD A PULLUP RESISTOR FROM EACH COLLECTOR TO VCC +12V, OR AN EXTERNALLY SUPPLIED VOLTAGE. 2 JUMPER PLUGS SELECT THE DESIRED PULLUP VOLTAGE

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN 420045 (1) L.M. ITEM 4 WAS 372753-0021 (2) UPDATED REV LEVEL BLOCK	3-30-77	[Signature]
B	CN 440448 (2) L.M. ITEM 10 WAS 972742-1 (2) UPDATED REV LEVEL BLOCK	9-26-78	[Signature]



TEST PROC	949821	*	*
LOGIC	949818	*	*
PWB	949819	*	A
ASSY	949820	*	A B

3	MARK	100-07	71	COLOR BLACK, TYPE 6
2	MARK	100-02	21	HEIGHT .09, COLOR BLACK
1	SLDR	127 W: 10R 124	00	
SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL
	PROCESS			CLASSIFICATION
				NOTES

PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS: REF. TI DRAWING 729467

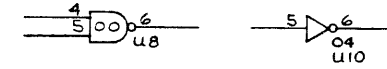
QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
UNLESS OTHERWISE SPECIFIED: * DIMENSIONS ARE IN INCHES * TOLERANCES: ANGLES ± 1° 3 PLACE DECIMALS ± 0.10 2 PLACE DECIMALS ± 0.02 * INTERPRET DRAWING PER MIL-D-1000 * REMOVE ALL BURRS AND SHARP EDGES * CONCENTRICITY MACHINED DIAMETERS .010 FIM * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * PARENTHEICAL INFO FOR REF ONLY					
HOLE TOLERANCE .013 - .008 THRU .125 THRU .008 THRU .008 .125 - .001 THRU .250 THRU .500 THRU .500 .501 - .008 THRU .010 THRU .010 .750 - .001 THRU 1.750 THRU 2.000 THRU .001					
GEN USE 7506 NEXT ASSY USED ON APPLICATION					
TEXAS INSTRUMENTS INCORPORATED Dallas, Texas 990 32-BIT OUTPUT DATA MODULE				D96214 949820	
SHEET					

TEXAS INSTRUMENTS INCORPORATED		DATE 09/20/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0949820-0001		REV B		
QTY	QTY	UNIT	DWG.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0949819-0001	PMB, 990 32-BIT OUTPUT DATA MODULE							
0002	00001.000	EA		0972944-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH - R-25						
0002A					R1							
0003	00002.000	FA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 X 20 VOL	QPL -M39003/1-2295						
0003A					C1 C20							
0004	00019.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%							
0004A					C2 THRU C19 C21							
0005	00016.000	FA		0996474-0001	IC,SN75472P,POSITIVE-HAND DR,DUAL PERIPH	001295-SN75472P						
0005A					U1 THRU U16							
0006	00004.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259M	TI -SN74LS259M						
0006A					U17 THRU U20							
0007	00001.000	EA		0972900-7130	NETWORK SN74LS130M	TI -SN74LS130M						
0007A					U21							
0008	00002.000	EA		0222222-7400	NETWORK-SN7400M							
0008A					U22 U23							
0009	00002.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH							
0010	00014.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75060-007						
0011	00002.000	FA		0972706-0004	HEADER, CONNECTOR 1 AMP RIGHT ANGLE	055101-3494-1002						
0011A					P2 P3							
0012	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PMB							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
			<i>J. R. ...</i>	9-20-78			990 32-BIT OUTPUT DATA MODULE					
APP. ENG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
					7506		LM 0949820-0001					

TEXAS INSTRUMENTS INCORPORATED		DATE 09/20/78		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0949820-0001		REV B		
QTY	QTY	UNIT	DWG.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0013	REF	EA		0949818-9901	LOGIC, 990 32-BIT OUTPUT DATA MODULE							
0014	REF	EA		0949821-9901	TEST PROC, 990 32-BIT OUTPUT DATA MODULE							
0015	REF	EA		0949822-9901	SPEC, 990 32-BIT OUTPUT DATA MODULE							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
							990 32-BIT OUTPUT DATA MODULE					
APP. ENG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
							LM 0949820-0001					

NOTES: UNLESS OTHERWISE SPECIFIED;

1. ALL DEVICE TYPES ARE PREFIXED WITH SMTA.
2. GROUND IS APPLIED TO PIN 4 OF ALL 8-PIN IC'S, PIN 7 OF ALL 14-PIN IC'S, AND PIN 8 OF ALL 16-PIN IC'S.
3. VCC IS APPLIED TO PIN 8 OF ALL 8-PIN IC'S, PIN 14 OF ALL 14-PIN IC'S, AND PIN 16 OF ALL 16-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



- OO AND O4 = DEVICE TYPE
 - 4, 5 AND 6 = PIN NUMBERS
 - U8 AND U10 = REFERENCE DESIGNATOR
5. RESISTORS R2 THRU R33 ARE OPTIONAL.

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

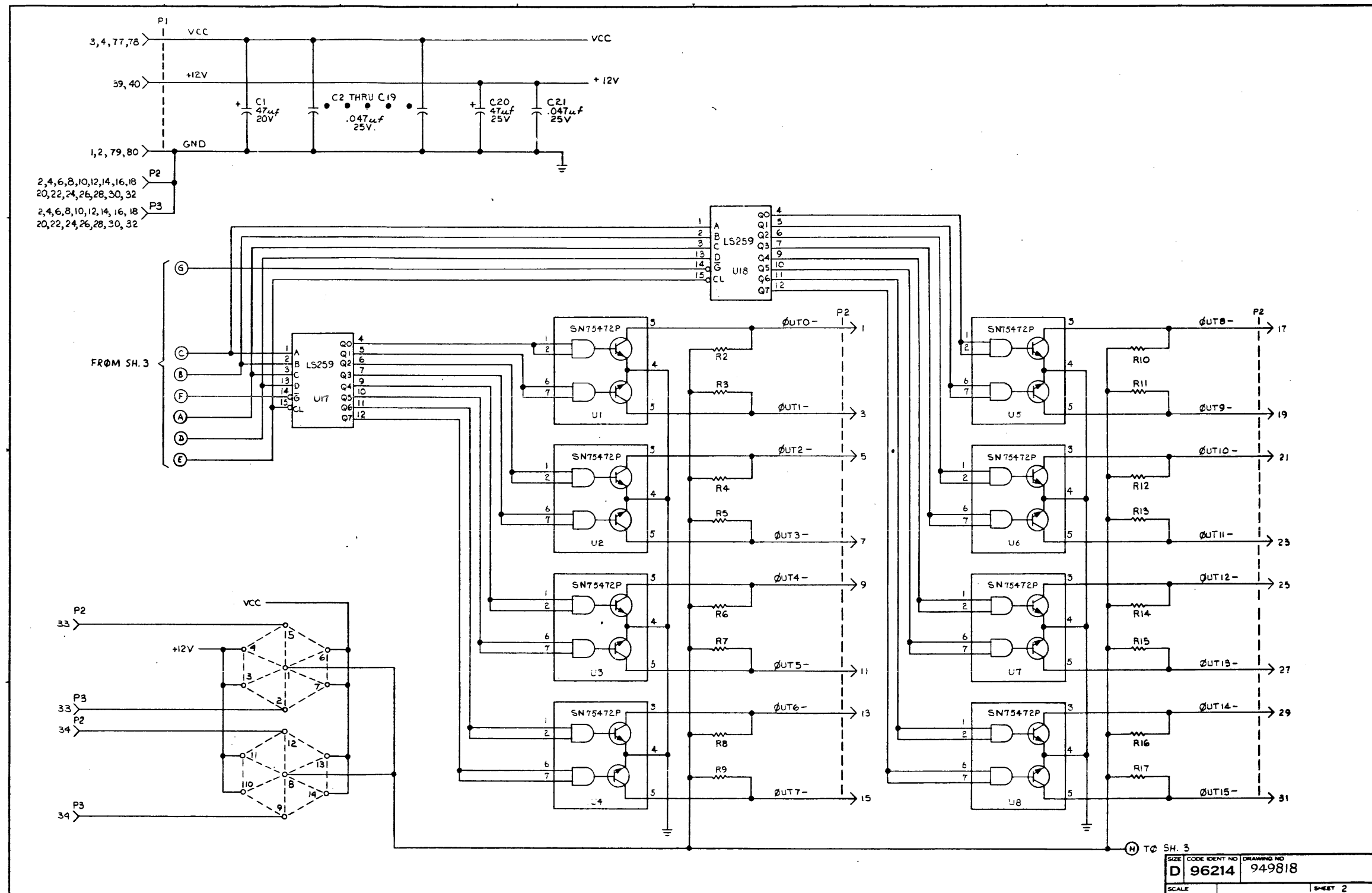
QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED		DATE	
REMOVE ALL BURRS AND SHARP EDGES		DIMENSIONS ARE IN INCHES		DWN	
CONCENTRICITY MACHINED DIAMETERS .010 FIR		TOLERANCES		CHK	
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING		ANGLES ±1°		ENGR	
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		3 PLACE DECIMALS ± .010		GA	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		2 PLACE DECIMALS ± .02		APVD	
HOLE TOLERANCE		MATERIAL:		CONTR NO	
0.13 - .004	.125 - .001	1.25 - .005	THRU - .008	DESIGN ACTIVITY RELEASE	
1.25 - .001	.750 - .001	1.001 - .012	THRU - .020	SCALE	
1.001 - .012	2.000 - .020	APPLICATION		SHEET 1 OF 3	

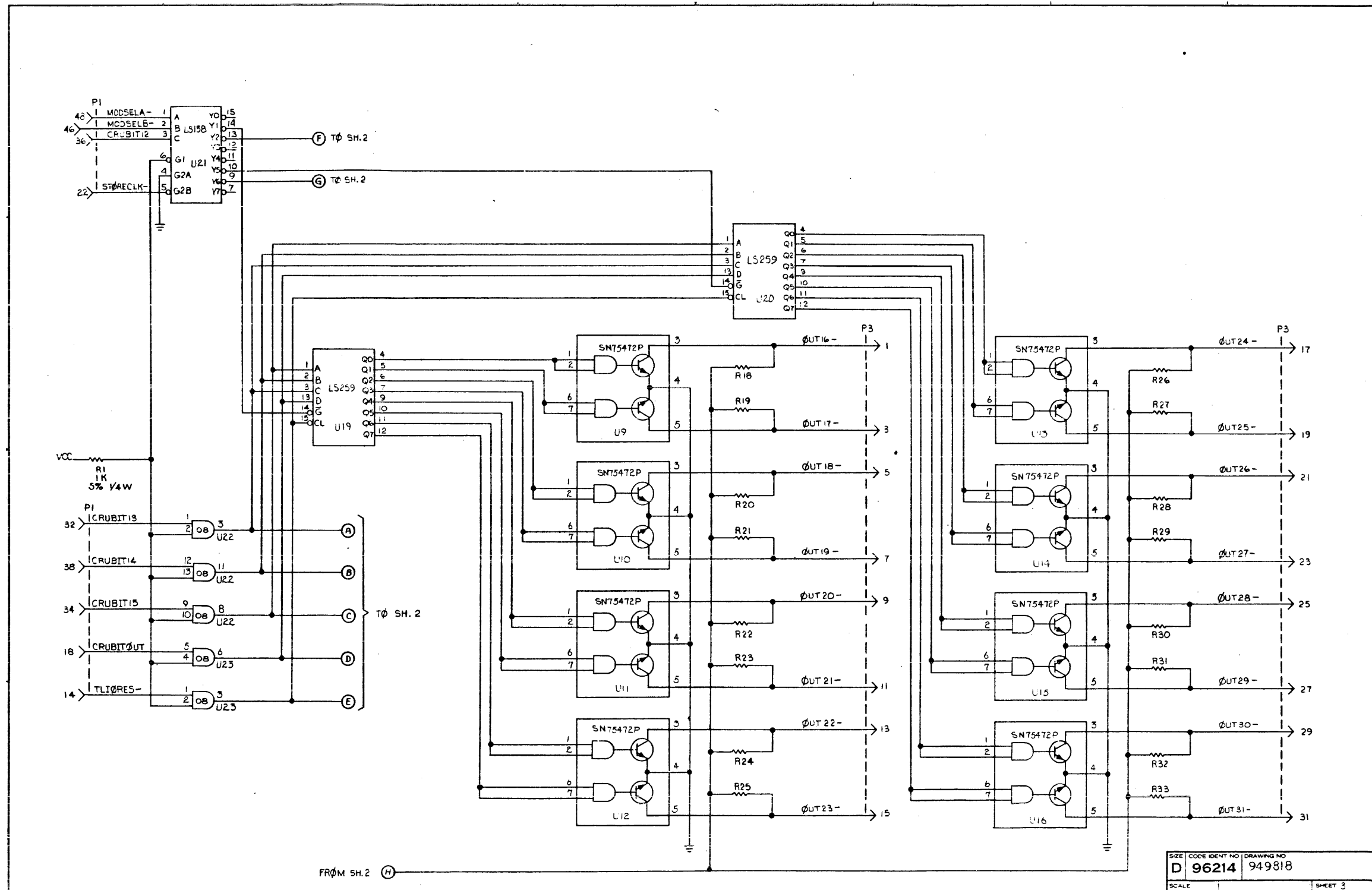
TEXAS INSTRUMENTS
INCORPORATED
Equipment Group Dallas Texas

LOGIC DIAGRAM
990 32-BIT OUTPUT
DATA MODULE

SIZE CODE IDENT NO DRAWING NO
D 96214 949818



SIZE	CODE IDENT NO	DRAWING NO
D	96214	949818
SCALE	SHEET 2	



SIZE	CODE IDENT NO	DRAWING NO
D	96214	949818
SCALE		SHEET 3

TEXAS INSTRUMENTS INCORPORATED		DATE 03/18/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0940050-0001		REV E	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0940051-0001	PWB, 5MT/6MT SERIAL I/F MODULE						
0002	0002.000	EA		0972159-7265	NETWORK, SN74265N						
0002A					U39 U40						
0003	0002.000	EA		0994023-0001	IC, LOW INOMER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N				
0003A					U29 U38						
0004	0002.000	EA		0972668-0001	NETWORK SN74LS251N						
0004A					U30 U31						
0005	0002.000	EA		0972751-0001	NETWORK, SN74LS04N						
0005A					U6 U17						
0006	0002.000	EA		0222222-7191	NETWORK SN74191N						
0006A					U5 U26						
0007	0004.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0007A					U10 U19 U30 U27						
0008	0003.000	EA		0219402-7200	NETWORK SN74S200N						
0008A					U21 U22 U23						
0009	0004.000	EA		0972900-7474	NETWORK SN74LS74N						
0009A					U32						
0010	0002.000	EA		0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N				
0010A					U33 U34						
0011	0001.000	EA		0219402-7139	NETWORK SN74S139N						
DRAFTSMAN		DATE	CHKD	DRAFTSMAN	DATE	TITLE					
APP. MFG.		DATE	APPD.	PROJECT ENGINEER	DATE	RELEASED					
						PROJECT NO.					
						PART NUMBER					
						REV					

TEXAS INSTRUMENTS INCORPORATED		DATE 03/18/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0940050-0001		REV E	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0011A					U25						
0012	0004.000	EA		0972749-0001	NETWORK, SN74LS08N						
0012A					U2 U8 U11 U14						
0013	0002.000	EA		0972900-7410	NETWORK SN74LS10N						
0013A					U3 U15						
0014	0001.000	EA		0972900-7400	NETWORK SN74LS00N	TI	-SN74LS00N				
0014A					U37						
0015	0001.000	EA		0222222-7403	NETWORK SN7403N						
0015A					U7						
0016	0001.000	EA		0219402-7430	NETWORK SN74S30N						
0016A					U41						
0017	0003.000	EA		0972900-7404	NETWORK SN74LS04N						
0017A					U1 U12 U18						
0018	0001.000	EA		0219402-7411	NETWORK SN74S11N						
0018A					U24						
0019	0001.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N				
0019A					U13						
0020	0002.000	EA		0222222-7128	NETWORK SN74128N	TI	-SN74128N				
0020A					U4 U9						
0021	0002.000	EA		0972900-7451	NETWORK SN74LS51N	TI	-SN74LS51N				
DRAFTSMAN		DATE	CHKD	DRAFTSMAN	DATE	TITLE					
APP. MFG.		DATE	APPD.	PROJECT ENGINEER	DATE	RELEASED					
						PROJECT NO.					
						PART NUMBER					
						REV					

TEXAS INSTRUMENTS INCORPORATED		DATE 03/18/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0940050-0001		REV E	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021A					U16 U35						
0022	0001.000	EA		0996685-0001	IC, SN75122N, TRIPLE LINE RECEIVER	001295-SN75122N					
0022A					U43						
0023	0001.000	EA		0972814-0001	NETWORK SN74LS27N						
0023A					U28						
0024	0001.000	EA		0219402-7124	NETWORK SN74S124N						
0024A					U36						
0025	0001.000	EA		0222222-7406	NETWORK SN7406N						
0025A					U42						
0026	0003.000	EA		0972946-0085	RES FIX 6.8K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0026A					R1 R2 R11						
0027	0002.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	RUM	- R-25				
0027A					R3 R5						
0028	0002.000	EA		0972946-0037	RES FIX 68.0 OHM 5% .25 W CARBON FILM	RUM	- R-25				
0028A					R7 R8						
0029	0001.000	EA		0972946-0072	RES FIX 2.0K OHM 5% .25 W CARBON FILM	RUM	- R-25				
0029A					R9						
0030	0001.000	EA		0972946-0095	RES FIX 18K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0030A					R10						
0031	0001.000	EA		0972946-0091	RES FIX 1.2 K OHM 5% .25 W CARBON FILM	ROH	- R-25				
DRAFTSMAN		DATE	CHKD	DRAFTSMAN	DATE	TITLE					
APP. MFG.		DATE	APPD.	PROJECT ENGINEER	DATE	RELEASED					
						PROJECT NO.					
						PART NUMBER					
						REV					

TEXAS INSTRUMENTS INCORPORATED		DATE 03/18/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0940050-0001		REV E	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0031A					R12						
0032	00002.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0032A					R4 R6						
0033	00002.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 X 15 VOLT	OPL	-M39003/1-2271				
0033A					C1 C2						
0034	00026.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0034A					C3 THRU C27 C29						
0035	00001.000	EA		0972929-0388	CAP FIX CERAMIC 330 PF 10 X 200 V	OPL	-M39014/01-1388				
0035A					C28						
0036	00004.000	EA		0972932-0001	DIODE 1N914B	SEE TI- DRAWING					
0036A					CR1 CR2 CR3 CR4						
0037	00002.000	EA		0972934-0004	DIODE,1N749A 4.3 V 5% SIL VOLT REG	OPL	- 1N749A				
0037A					CR5 CR6						
0038	00002.000	EA		0972934-0006	DIODE,1N751A 5.1 V 5% SIL VOLT REG	OPL	- 1N751A				
0038A					CR7 CR9						
0039	00002.000	EA		0972934-0001	DIODE,1N749A 3.3 V 5% SIL VOLT REG	OPL	- 1N746A				
0039A					CR8 CR10						
0040	00002.000	EA		0972948-0002	TRANSISTOR,2N2222A NPN GEN PUMP SW TO-18 TI	- 2N2222A					
0040A					Q1 Q2						
0041	00001.000	EA		0972713-0001	PLUG, JUMPER, I-C, 0.300 INCH						
DRAFTSMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE SMT/6MT SERIAL I/F MODULE											
APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0940050-0001 E											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/18/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 0940050-0001		REV E	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0042	00004.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75060-007					
0042A					E1 E2 E3 E4						
0043	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PHB						
0044	00001.000	EA		0972708-0001	CONNECTOR, RS-232, PHB MTG.						
0044A					P2						
0045	00001.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI -206514-1					
0046	AR	EA		0996069-0003	ADH, SOLID, BHMPLSTC 258 BAG ANAEROBIC	PERSAL-917-6302					
0047	REF	EA		0940052-9901	LOGIC DIAGRAM, SMT/6MT SERIAL I/F MODULE						
0048	REF	EA		0940054-9901	SPECIFICATION, SMT/6MT SERIAL I/F MODULE						
0049	REF	EA		0940053-9901	TEST PROGRAMME, SMT/6MT SERIAL I/F MOD.						
0050	00001.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 16 CONT	003412-DIL816P-108					
0050A					XU36						
DRAFTSMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE SMT/6MT SERIAL I/F MODULE											
APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0940050-0001 E											

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		EN416003 (DTC)	1-12-77
B		EN449954	7-31-79

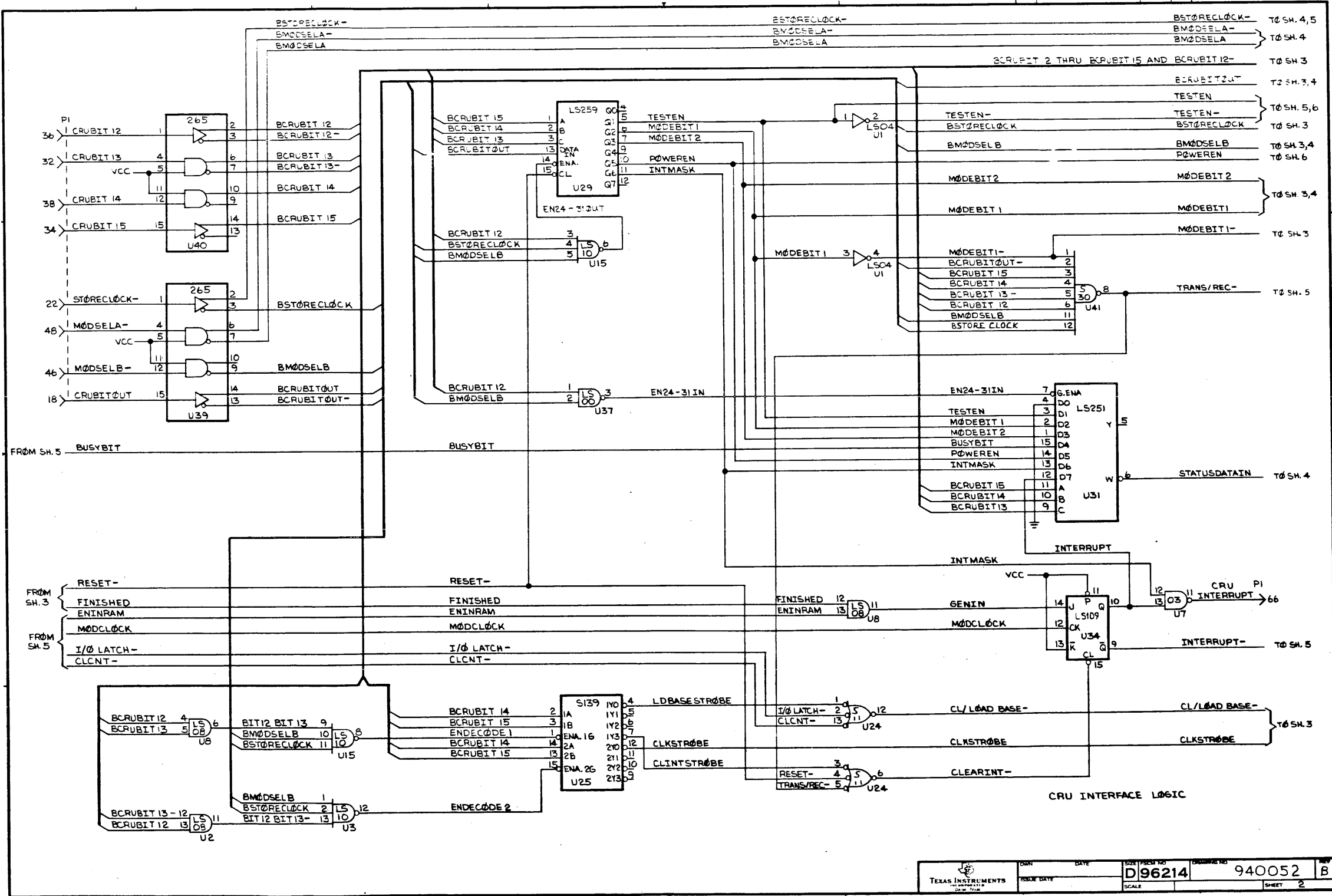
- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES ARE PREFIXED WITH EN74.
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
 4. DEVICE TYPE, PIN NUMBERS, AND LOCATION OF IC'S IS SHOWN AS FOLLOWS:



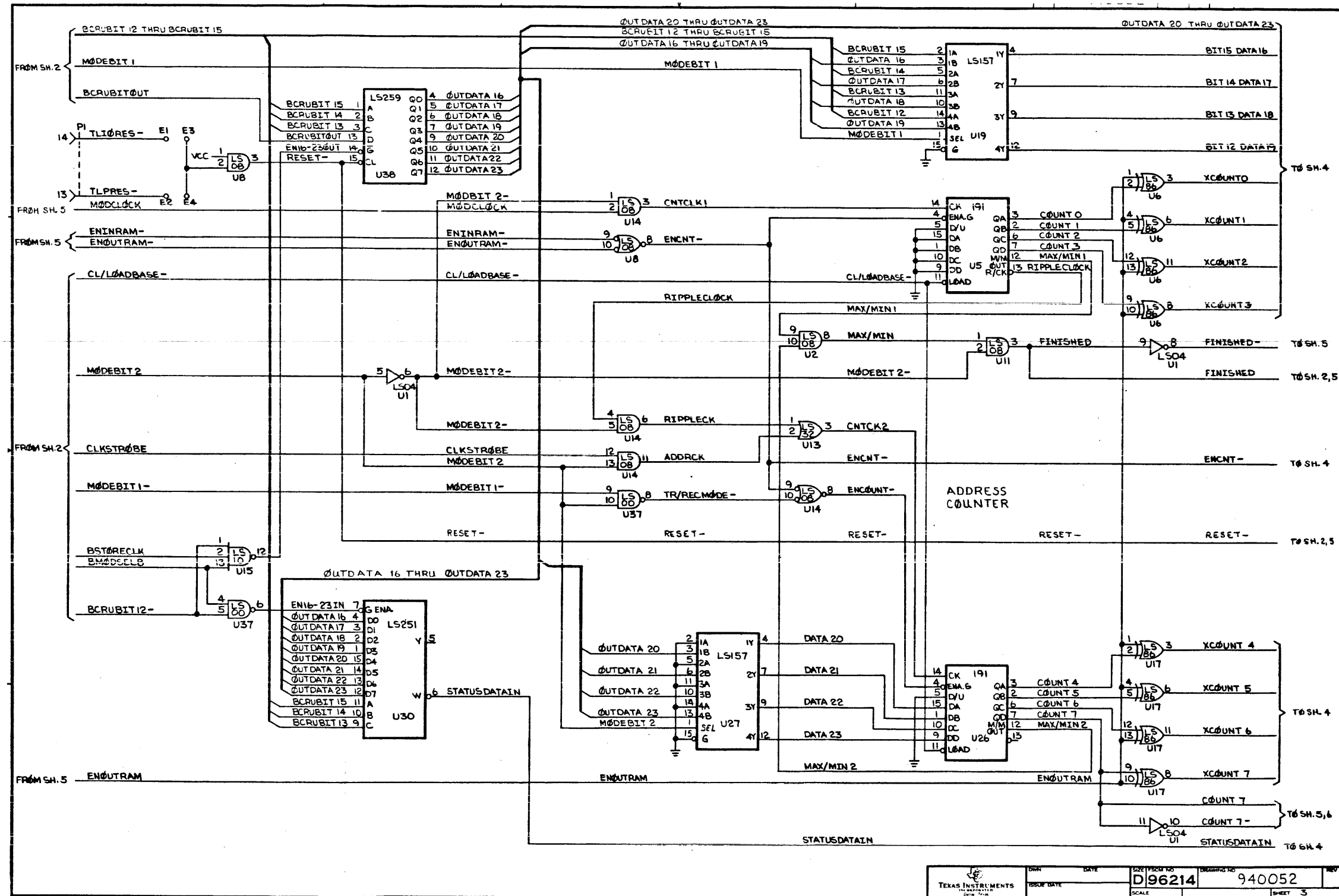
L500 AND L504 = DEVICE TYPE
 1, 2, 3, AND 4 = PIN NUMBERS
 U37 AND U1 = REFERENCE DESIGNATOR

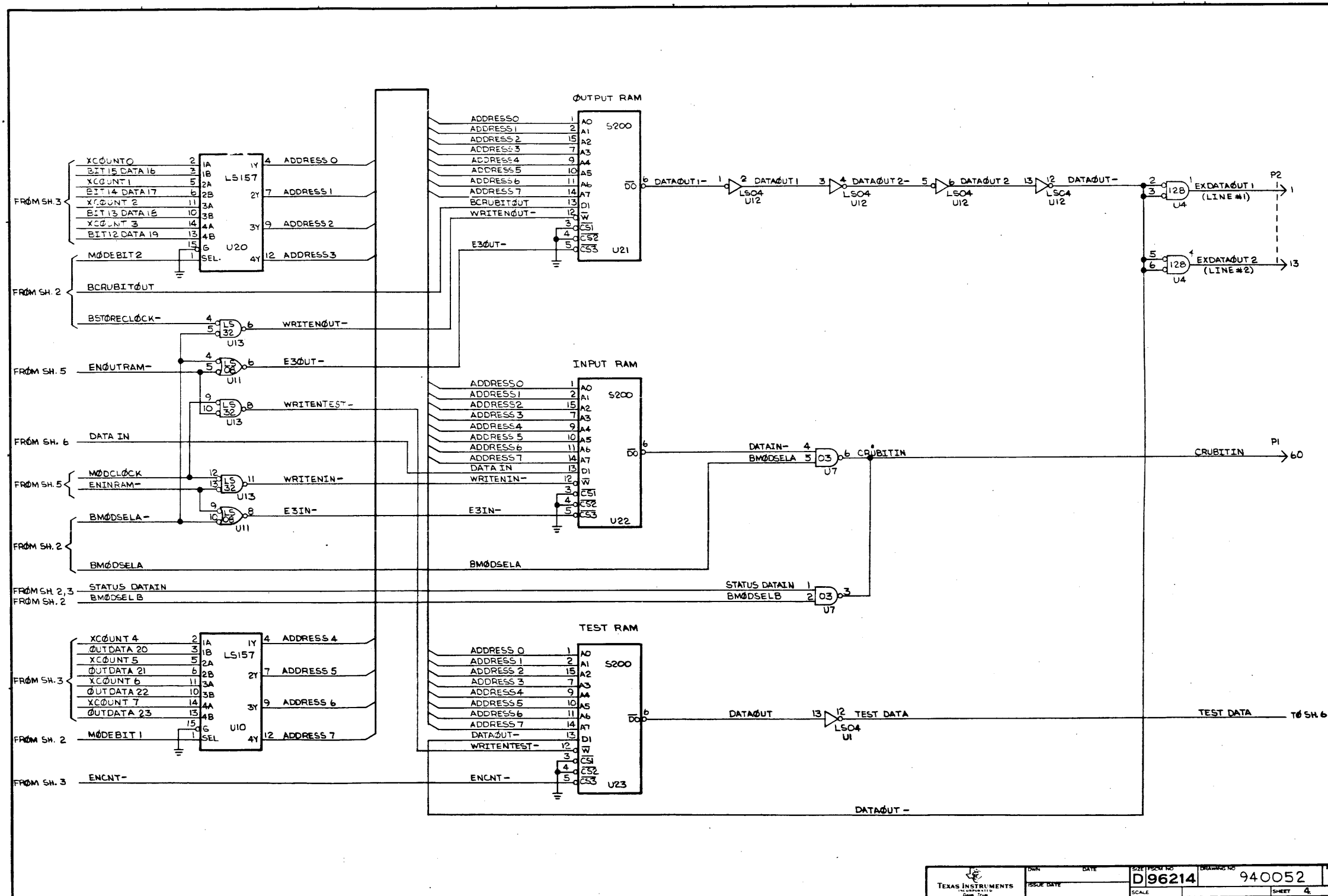
REV STATUS	REV	DESCRIPTION
OF SHEETS	SHEET	1 2 3 4 5 6

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION																												
PARTS LIST																																	
UNLESS OTHERWISE SPECIFIED			UNLESS OTHERWISE SPECIFIED																														
REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 P/R DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02																														
<table border="1"> <thead> <tr> <th>HOLE TOLERANCE</th> <th>SIZE</th> <th>THRU</th> <th>TOLERANCE</th> </tr> </thead> <tbody> <tr> <td>018</td> <td>1.26</td> <td>THRU</td> <td>±.008</td> </tr> <tr> <td>THRU</td> <td>1.004</td> <td>THRU</td> <td>±.008</td> </tr> <tr> <td>115</td> <td>1.001</td> <td>THRU</td> <td>±.001</td> </tr> <tr> <td>301</td> <td>1.008</td> <td>THRU</td> <td>±.010</td> </tr> <tr> <td>THRU</td> <td>1.001</td> <td>THRU</td> <td>±.001</td> </tr> <tr> <td>750</td> <td>1.000</td> <td>THRU</td> <td>±.002</td> </tr> </tbody> </table>			HOLE TOLERANCE	SIZE	THRU	TOLERANCE	018	1.26	THRU	±.008	THRU	1.004	THRU	±.008	115	1.001	THRU	±.001	301	1.008	THRU	±.010	THRU	1.001	THRU	±.001	750	1.000	THRU	±.002	DWG: P. Keeler 4/7/77 C. KEELER 5-12-77 ENGR: J. L. Johnson 9/22/77 DATE: 9/22/77 DISTR NO:		
HOLE TOLERANCE	SIZE	THRU	TOLERANCE																														
018	1.26	THRU	±.008																														
THRU	1.004	THRU	±.008																														
115	1.001	THRU	±.001																														
301	1.008	THRU	±.010																														
THRU	1.001	THRU	±.001																														
750	1.000	THRU	±.002																														
<table border="1"> <thead> <tr> <th>APPLICATION</th> <th>USED ON</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>			APPLICATION	USED ON			TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas LOGIC DIAGRAM, 990 5MT/6MT SERIAL INTERFACE MODULE SIZE: D 96214 DRAWING NO: 940052 DESIGN ACTIVITY RELEASE: 9/22/77 SCALE: 1 OF 6																										
APPLICATION	USED ON																																

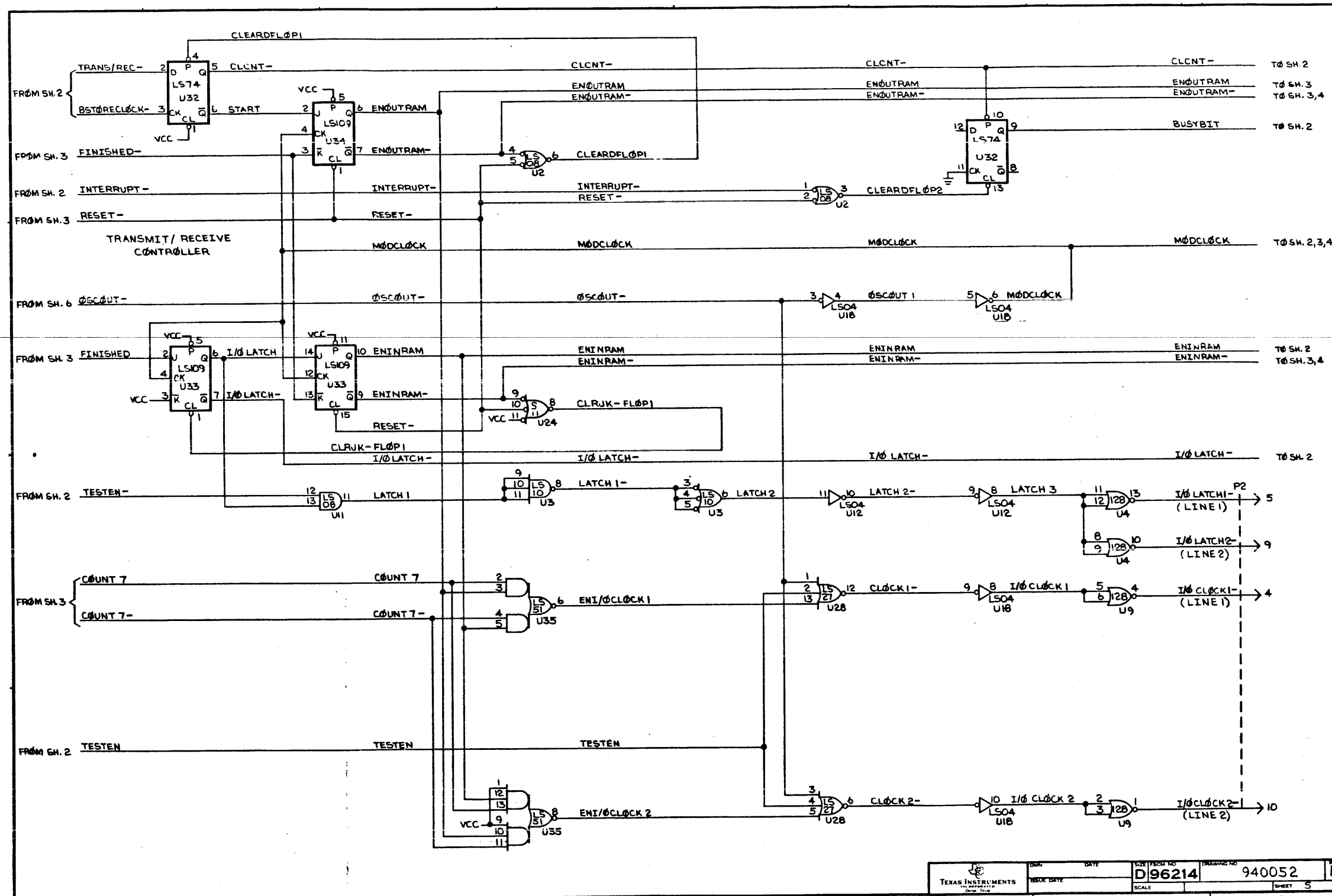


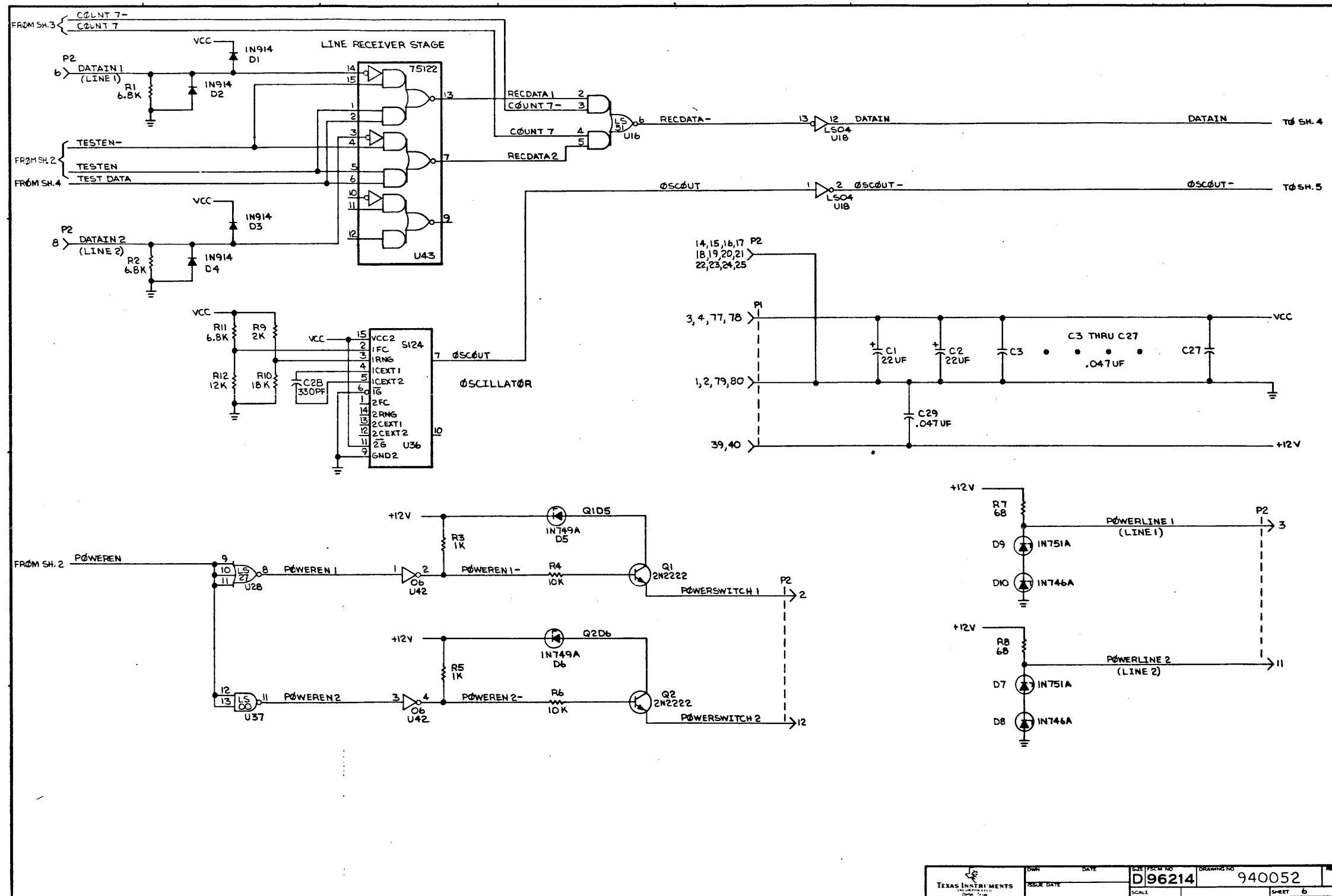
DESIGN NO.	DATE	SIZE (INCHES)	QUANTITY	940052	REV. B
TEXAS INSTRUMENTS	DESIGNER	SCALE			SHEET 2





TEXAS INSTRUMENTS	DATE	SIZE FROM NO.	DRAWING NO.
	ISSUE DATE	D96214	940052
SCALE		SHEET 4	





TEXAS INSTRUMENTS	DATE	ISSUE DATE	SCALE	DRW	D96214	DATE	940052	REV
							SHEET 6	

NOTES: UNLESS OTHERWISE SPECIFIED:

I. REWORK FOR P.W.B. 949824 REV.*

A. ON THE BACK SIDE OF CELL #11, CONNECT THE ISOLATED PAD OF COMPONENT PAD PAIRS TO THE END OF PIN #1 ON X01 AS SHOWN BELOW. USE 30 GAUGE SOLID CONDUCTOR INSULATED WIRE AS NEEDED.

B. ON THE BACK SIDE OF CELL #14, CONNECT THE ISOLATED PADS OF COMPONENT PAD PAIRS 11 & 13 TO THE COMMON PAD FOR CONNECTION OF VOLTAGES V1, V2, V3, V4, & V5 AS SHOWN BELOW. USE 30 GAUGE SOLID CONDUCTOR INSULATED WIRE AS NEEDED.

REVISIONS

REV	DESCRIPTION	DATE	APPROVED

REVISION LEVEL BLOCK

SCHEMATIC 949823-9901	*	*	
PWB 949824-0001	*	A	
ASSY 949825-0001	*	*	

2	MARK	100-02	21	HEIGHT .09 COLOR BLK
1	SLDR	27-01/24-02	00	
SEQ NO	IDENT	F SPEC	NO	ADDITIONAL CLASSIFICATION NOTES

PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE 11 DRAWING 729467

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES									
PARTS LIST														
<ul style="list-style-type: none"> * DIMENSIONS ARE IN INCHES * TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02 * INTERPRET DRAWING PER MIL-D-1000 * REMOVE ALL BURRS AND SHARP EDGES * CONCENTRICITY MACHINED DIAMETERS .010 FIM * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * PARENTHETICAL INFO FOR REF ONLY 														
GEN USE		7506	<table border="1" style="width: 100%; font-size: x-small;"> <tr> <td>013 - 004</td> <td>126 - 006</td> <td>251 - 006</td> </tr> <tr> <td>THRU - 001</td> <td>THRU - 001</td> <td>THRU - 001</td> </tr> <tr> <td>125 - 000</td> <td>250 - 000</td> <td>500 - 000</td> </tr> </table>	013 - 004	126 - 006	251 - 006	THRU - 001	THRU - 001	THRU - 001	125 - 000	250 - 000	500 - 000	<p style="text-align: center;">TEXAS INSTRUMENTS INCORPORATED Dallas, Texas</p> <p style="text-align: center;">990 DIGITAL I/O TERMINATION PANEL</p>	
013 - 004	126 - 006	251 - 006												
THRU - 001	THRU - 001	THRU - 001												
125 - 000	250 - 000	500 - 000												
NEXT ASSY USED ON		750	<table border="1" style="width: 100%; font-size: x-small;"> <tr> <td>801 - 008</td> <td>751 - 010</td> <td>1,001 - 012</td> </tr> <tr> <td>THRU - 001</td> <td>THRU - 001</td> <td>THRU - 001</td> </tr> <tr> <td>750 - 001</td> <td>1,000 - 001</td> <td>2,000 - 001</td> </tr> </table>	801 - 008	751 - 010	1,001 - 012	THRU - 001	THRU - 001	THRU - 001	750 - 001	1,000 - 001	2,000 - 001	<p style="text-align: center;">D96214</p> <p style="text-align: center;">949825</p>	
801 - 008	751 - 010	1,001 - 012												
THRU - 001	THRU - 001	THRU - 001												
750 - 001	1,000 - 001	2,000 - 001												
APPLICATION														



TEXAS INSTRUMENTS
INCORPORATED

DATE 02/18/77

LIST OF MATERIAL

PAGE 1 of

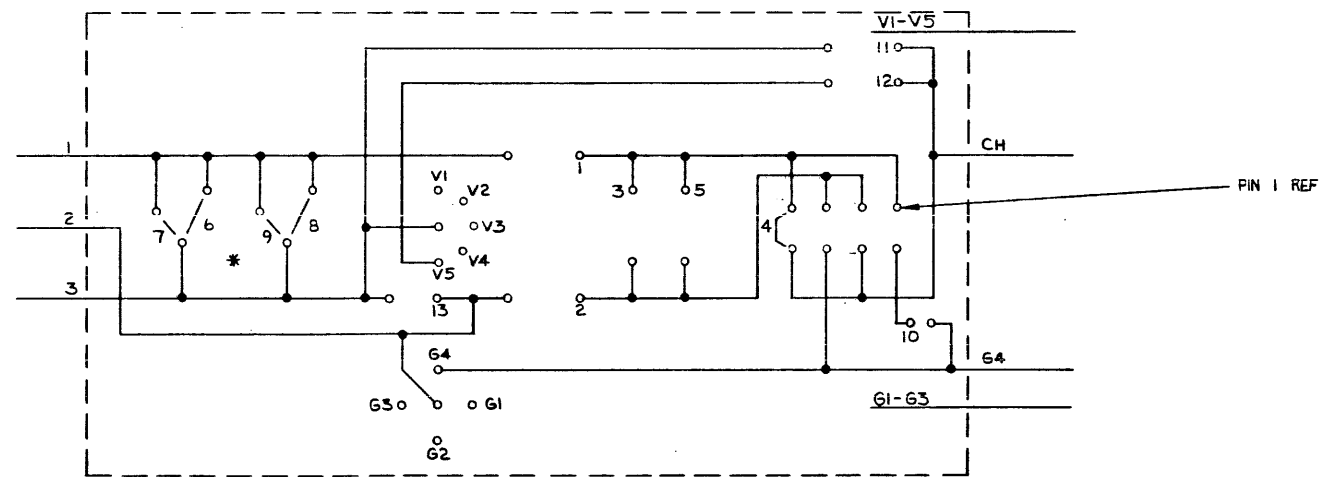
PART NUMBER
LM 0949825-0001 REV *

ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		0949824-0001	PWB, 990 DIGITAL I/O TERMINATION PANEL	
0002	00009.000	EA		0996412-0003	TERMINAL BLOCK BARRIER	060137-4PCY-06
0002A					TS1 TS2 TS3 TS4 TS5 TS6 TS7	
0002B					TS8 TS9	
0003	00001.000	EA		0972706-0010	HEADER,CONNECTOR,RIGHT ANGLE	075037-3494-1003
0003A					P1	
0004	00010.000	EA		0537182-0002	JACK TIP	
0005	REF	EA		0949823-9901	SCHEMATIC, DIGITAL I/O TERMINATION PANEL	
0006	REF	EA		0949826-9901	SPEC, 990 DIGITAL I/O TERMINATION PANEL	

DRAFTSMAN	DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
		<i>J.R.S.</i>	2-21-77			990 DIGITAL I/O TERMINATION PANEL
APPD. MFG.	DATE	APPD. PROJECT/ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						7506

PART NUMBER	REV
LM 0949825-0001	*

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		INITIAL	8-25-77	[Signature]



DIGITAL I/O CELL (TYPICAL)

* PAD SET 6 OR PAD SET 7 CAN BE USED, BUT NOT BOTH.
SIMILARY FOR PAD SETS 8 AND 9

REV STATUS	REV	A	*
OF SHEETS	SHEET	1	2

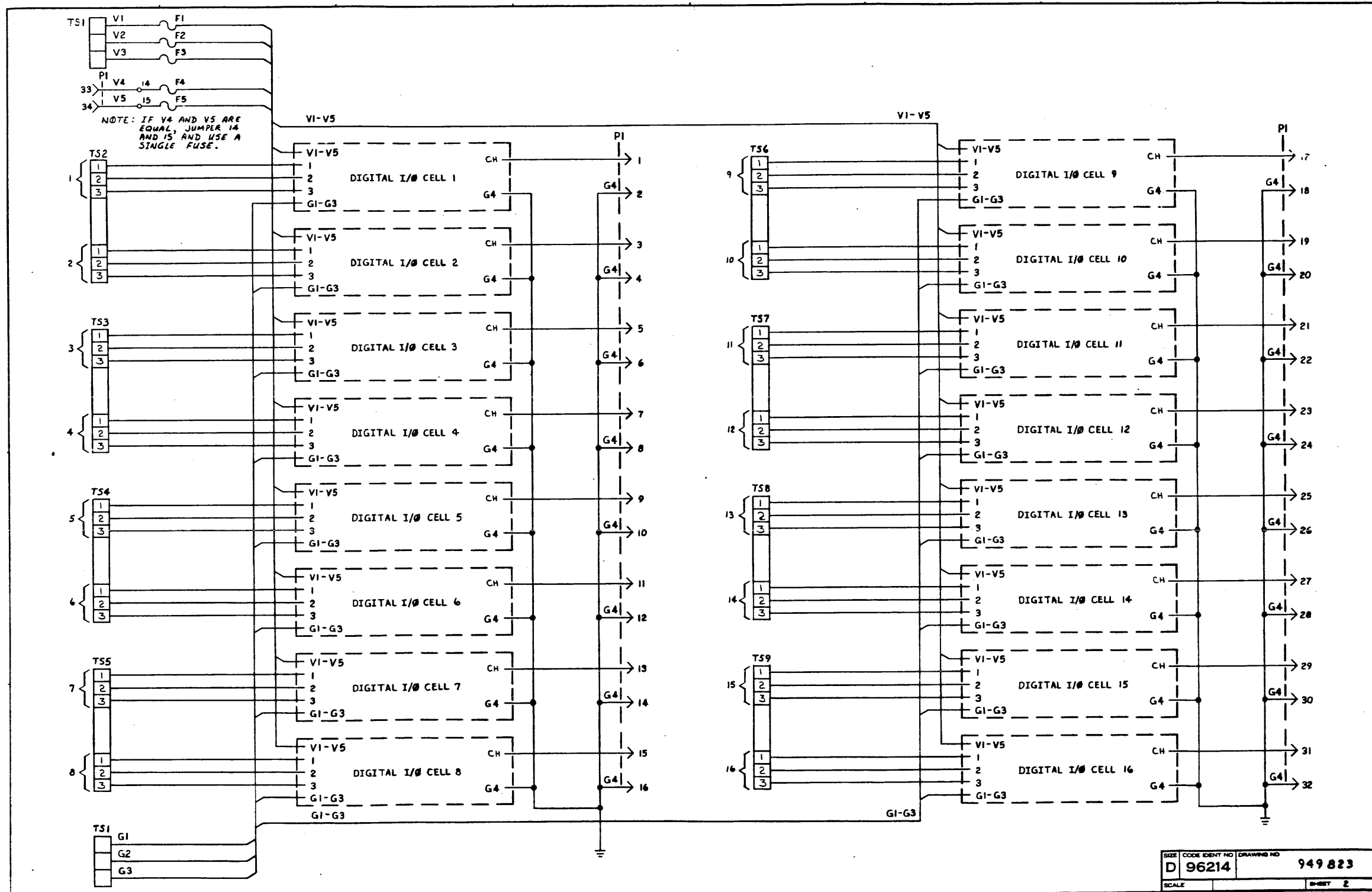
QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

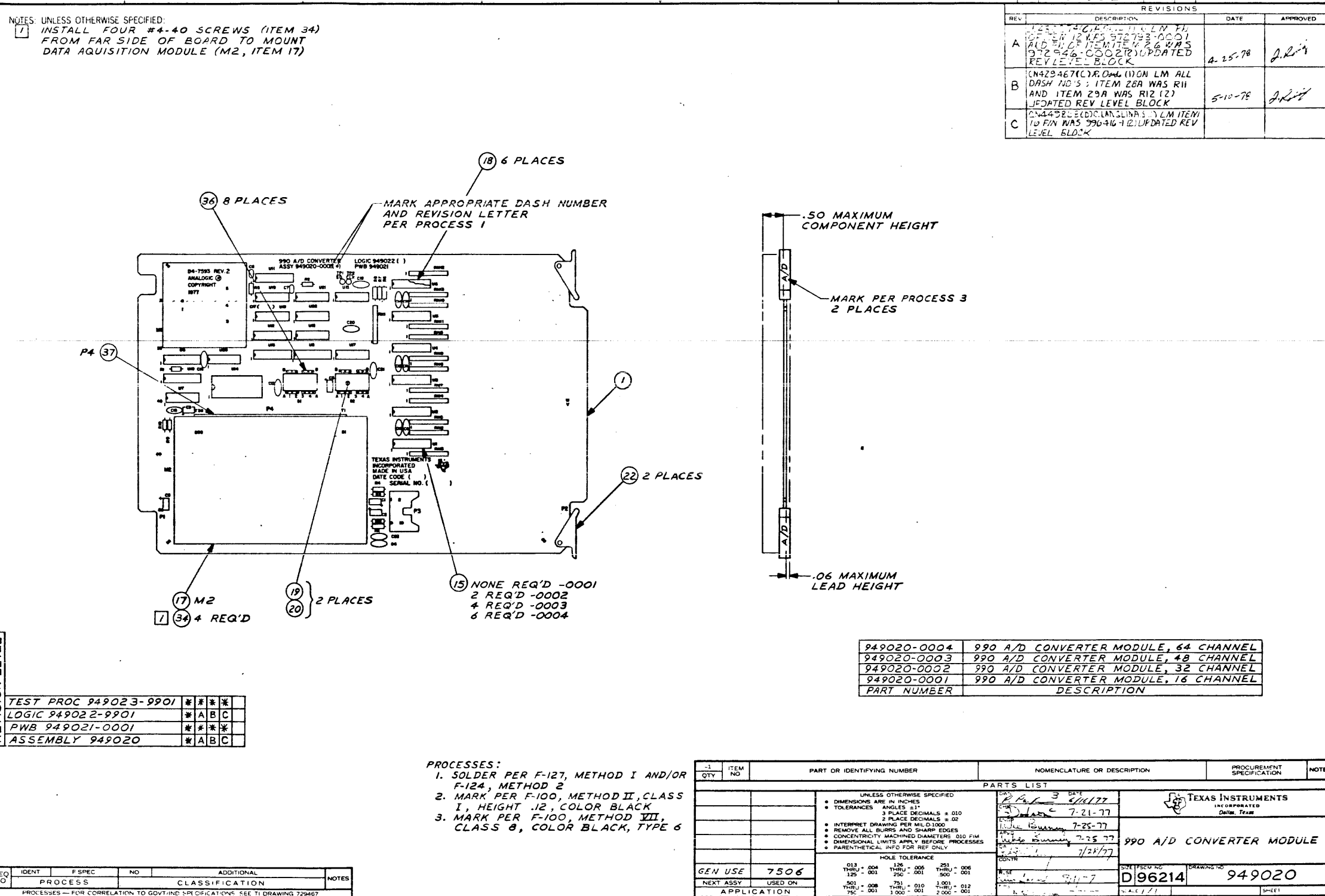
UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 FIB	DIMENSIONS ARE IN INCHES	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	ANGLES ±1°	3 PLACE DECIMALS ±.010
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		2 PLACE DECIMALS ±.02	
HOLE TOLERANCE		MATERIAL	
.013 +.004 THRU .005	.125 +.005 THRU .001	DWN DATE	
.125 -.001	.250	CHK: P. KREUER 3-25-77	
.501	.750	ENGR: [Signature]	
.750 +.008 THRU .010	1.001 THRU .012	QA: [Signature]	
.750 -.001	1.000 -.001	APPR: [Signature]	
		CONTR NO	
		DESIGN ACTIVITY RELEASE	
		SCALE	
		SHEET 1 OF 2	

TEXAS INSTRUMENTS
INCORPORATED
Dallas, Texas

SCHMATIC,
DIGITAL I/O
TERMINATION PANEL

SIZE CODE IDENT NO DRAWING NO
D 96214 949823





TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0949020-0001		REV C	
PROJECT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		0949021-0001	PWB, 990 A/D CONVERTER MODULE				
0002	00001.000	EA		0222222-7403	NETWORK SN7403N				
0002A					U7				
0003	00001.000	EA		0222222-7150	NETWORK SN74150N				
0003A					U14				
0004	00002.000	EA		0972159-7265	NETWORK, SN74265N				
0004A					U9 U10				
0005	00001.000	EA		0972900-7402	NETWORK SN74LS02N				
0005A					U16				
0006	00001.000	EA		0972900-7404	NETWORK SN74LS04N				
0006A					U17				
0007	00001.000	EA		0572745-0001	NETWORK, SN74LS08N				
0007A					U15				
0008	00001.000	EA		0972900-7410	NETWORK SN74LS10N				
0008A					U20				
0009	00001.000	EA		0972784-0002	NETWORK SN74LS14N				
0009A					U22				
0010	00002.000	EA		0972813-0001	NETWORK-SN74LS21N				
0010A					U18 U19				
0011	00001.000	EA		0572900-7474	NETWORK SN74LS74N				
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 A/D CONVERTER MODULE, 16 CHANNEL	
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506	LM 0949020-0001

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0949020-0001		REV C	
PROJECT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0011A					U21				
0012	00001.000	EA		0222222-7123	NETWORK SN74123N				
0012A					U11				
0013	00001.000	EA		0972900-7139	NETWORK SN74LS139N	TI	-SN74LS139N		
0013A					U8				
0014	00002.000	EA		0596023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N		
0014A					U12 U13				
0016	00001.000	EA		0996791-0001	POWER SUPPLY, 15 VOLT	031814-MP3025			
0016A					M1				
0017	00001.000	EA		0996418-0001	ANALOG/DIGIT, DATA ACQUISITION MODULE	031814-MP6812-DRT			
0017A					M2				
0018	00006.000	EA		0539544-0002	SOCKET, 16PIN IC LOW PROFILE SOLDER TAIL	TI	-C93-16-U2		
0018A					XU1 XU2 XU3 XU4 XU5 XU6				
0019	00002.000	EA		0996547-0003	SWITCH, 4PST, ROCKER, DIP	081073-76C04			
0019A					S1 S2				
0020	00002.000	EA		0996548-0003	COVER, SWITCH-4 ROCKER				
0021	00002.000	EA		0411226-0002	TERMINAL, STUD				
0021A					TP1 TP2				
0022	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB				
0023	00001.000	EA		0940030-0001	NETWORK, RESISTOR, 1000 OHM				
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 A/D CONVERTER MODULE, 16 CHANNEL	
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		LM 0949020-0001

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0949020-0001		REV C	
PROJECT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0023A					RN1				
0024	00012.000	EA		0940029-0001	NETWORK, RESISTOR, 680 OHM				
0024A					RN2 THRU RN13				
0025	00006.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	- R-25		
0025A					R1 R6 R7 R8 R9 R10				
0026	00002.000	EA		0972946-0084	RES FIX 6.2K OHM 5% .25 W CARBON FILM	ROH	- R-25		
0026A					R2 R5				
0027	00002.000	EA		0972946-0010	RESISTOR, 5.1 OHMS .25W 5% FX INSULATED				
0027A					R3 R4				
0028	00001.000	EA		0972946-0053	RES FIX 330 OHM 5% .25 W CARBON FILM	ROH	- R-25		
0028A					R12				
0029	00001.000	EA		0972946-0049	RES FIX 220 OHM 5% .25 W CARBON FILM	ROH	- R-25		
0029A					R11				
0030	00003.000	EA		0996549-0002	CAPACITOR, 6.8 UF 20% 20V TANTALUM	031433-T330A685M020A5			
0030A					C1 C2 C8				
0031	00002.000	EA		0996549-0003	CAPACITOR, TANTALUM 10V 15UF 20%	031433-T330A156M010A5			
0031A					C3 C5				
0032	00002.000	EA		0972926-0006	CAP FIX MICA 500V 10.0 PF +/- 0.5 PF	QPL	-CM04C100000		
0032A					C6 C7				
0033	00015.000	EA		0419058-0002	CAPACITOR, .01 UF 20% 50V FX CER DIELECT	071590-UK50-103			
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 A/D CONVERTER MODULE, 16 CHANNEL	
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		LM 0949020-0001

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0949020-0001		REV C	
PROJECT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0033A					C4 C9 THRU C22				
0034	00004.000	EA		0972988-0013	SCREW 4-40 X .250 PAN HEAD CRES				
0035	00001.000	EA		0572706-0001	CONNECTOR, PWB, 10P, RT. A, SDR TL, HOR, FLTCBL	015912-609-1002M			
0035A					P3				
0036	00008.000	EA		0772696-0010	HEADER, 3 PIN .300LG SGL ROW, STIFF OF 3	-0002364			
0037	00001.000	EA		0996543-0003	RECEPTACLE, 72 POSITION, .25 SQ. POST	000779-3-860			
0037A					P4				
0038	REF	EA		0949022-9901	LOGIC DIAGRAM, 990 A/D CONVERTER MODULE				
0039	REF	EA		0949023-9901	TEST PROCEDURE, 990 A/D CONVERTER MODULE				
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 A/D CONVERTER MODULE, 16 CHANNEL	
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		LM 0949020-0001

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0949020-0002		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		0949021-0001	PWB, 990 A/D CONVERTER MODULE				
0007	00001.000	EA		0222222-7403	NETWORK SN7403N				
0002A					U7				
0003	00001.000	EA		0222222-7150	NETWORK SN74150N				
0003A					U14				
0004	00002.000	EA		0972159-7265	NETWORK, SN74265N				
0004A					U9 U10				
0005	00001.000	EA		0972900-7402	NETWORK SN74LS02N				
0005A					U16				
0006	00001.000	EA		0972900-7404	NETWORK SN74LS04N				
0006A					U17				
0007	00001.000	EA		0972749-0001	NETWORK, SN74LS08N				
0007A					U15				
0008	00001.000	EA		0972900-7410	NETWORK SN74LS10N				
0008A					U20				
0009	00001.000	EA		0972784-0002	NETWORK SN74LS14N				
0009A					U22				
0010	00002.000	EA		0972813-0001	NETWORK-SN74LS21N				
0010A					U18 U19				
0011	00001.000	EA		0972900-7474	NETWORK SN74LS74N				
DRAFTSMAN					DATE	990 A/D CONVERTER MODULE, 32 CHANNEL			
APP'D MFG					DATE	LM 0949020-0002			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0949020-0002		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0011A					U21				
0012	00001.000	EA		0222222-7123	NETWORK SN74123N				
0012A					U11				
0013	00001.000	EA		0972900-7139	NETWORK SN74LS139N	TI	-SN74LS139N		
0013A					U8				
0014	00002.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N		
0014A					U12 U13				
0015	00002.000	EA		0996565-0001	IC, 8-CHANNEL ANALOG MULTIPLEXER	034371-HI-1818A-5			
0015A					U1 U2				
0016	00001.000	EA		0996791-0001	POWER SUPPLY, 15 VOLT	031814-MP3025			
0016A					M1				
0017	00001.000	EA		0996418-0001	ANALOG/DIGIT, DATA ACQUISITION MODULE	031814-MP6812-DRT			
0017A					M2				
0018	00006.000	EA		0539544-0002	SOCKET, 16PIN IC LOW PROFILE SOLDER TAIL	TI	-C93-16-02		
0018A					XU1 XU2 XU3 XU4 XU5 XU6				
0019	00002.000	EA		0996547-0003	SWITCH, 4PST, ROCKER, DIP	081073-76C04			
0019A					S1 S2				
0020	00002.000	EA		0996548-0003	COVER, SWITCH-4 ROCKER				
0021	00002.000	EA		0411226-0002	TERMINATOR, 50Ω				
0021A					TPL TP2				
DRAFTSMAN					DATE	990 A/D CONVERTER MODULE, 32 CHANNEL			
APP'D MFG					DATE	LM 0949020-0002			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0949020-0002		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0022	00007.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB				
0023	00001.000	EA		0940030-0001	NETWORK, RESISTOR, 1000 OHM				
0023A					RN1				
0024	00012.000	EA		0940029-0001	NETWORK, RESISTOR, 680 OHM				
0024A					RN2 THRU RN13				
0025	00006.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	- R-25		
0025A					R1 R6 R7 R8 R9 R10				
0026	00002.000	EA		0972946-0084	RES FIX 6.2K OHM 5% .25 W CARBON FILM	ROH	- R-25		
0026A					R2 R5				
0027	00002.000	EA		0972946-0010	RESISTOR, 5.1 OHMS .25W 5% FX INSULATED				
0027A					R3 R4				
0028	00001.000	EA		0972946-0053	RES FIX 330 OHM 5% .25 W CARBON FILM	ROH	- R-25		
0028A					R12				
0029	00001.000	EA		0972946-0049	RES FIX 220 OHM 5% .25 W CARBON FILM	ROH	- R-25		
0029A					R11				
0030	00003.000	EA		0996549-0002	CAPACITOR, 6.8 UF 20% 20V TANTALUM	031433-T330A685M020A5			
0030A					C1 C2 C8				
0031	00002.000	EA		0996549-0003	CAPACITOR, TANTALUM 10V 15UF 20%	031433-T330A156M010A5			
0031A					C3 C5				
0032	00002.000	EA		0972926-0006	CAP FIX MICA 500V 10.0 PF +/- 0.5 PF	QPL	-CM04C10000D		
DRAFTSMAN					DATE	990 A/D CONVERTER MODULE, 32 CHANNEL			
APP'D MFG					DATE	LM 0949020-0002			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0949020-0002		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0032A					C6 C7				
0033	00015.000	EA		0419058-0002	CAPACITOR, .01 UF 20% 50V FX CER DIELEC	071590-UK50-103			
0033A					C4 C9 THRU C22				
0034	00004.000	EA		0972988-0013	SCREW 4-40 X .250 PAN HEAD CRCS				
0035	00001.000	EA		0972706-0001	CONNECTOR, PWB, 10P, RT.A, SDFIL, HDR, FLTCBL	015912-605-1002M			
0035A					P3				
0036	00009.000	EA		0772646-0010	HEADER, 3 PIN .300LG SGL ROW, STRIP OF 3	-0002364			
0037	00001.000	EA		0996543-0003	RECEPTACLE, 72 POSITION, .25 SQ. POST	000779-3-860			
0037A					P4				
0038	REF	EA		0949022-9901	LOGIC DIAGRAM, 990 A/D CONVERTER MODULE				
0039	FFF	EA		0949023-9901	TEST PROCEDURE, 990 A/D CONVERTER MODULE				
DRAFTSMAN					DATE	990 A/D CONVERTER MODULE, 32 CHANNEL			
APP'D MFG					DATE	LM 0949020-0002			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0949020-0003		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0949021-0001	PWB, 990 A/D CONVERTER MODULE				
0002	0001.000	EA		022222-7403	NETWORK SN7403N				
0002A					U7				
0003	0001.000	EA		022222-7150	NETWORK SN74150N				
0003A					U14				
0004	0002.000	FA		0972159-7265	NETWORK, SN74265N				
0004A					U9 U10				
0005	0001.000	EA		0972900-7402	NETWORK SN74LS02N				
0005A					U16				
0006	0001.000	EA		0972900-7404	NETWORK SN74LS04N				
0006A					U17				
0007	0001.000	EA		0972749-0001	NETWORK, SN74LS08N				
0007A					U15				
0008	0001.000	EA		0972900-7410	NETWORK SN74LS10N				
0008A					U20				
0009	0001.000	EA		0572784-0002	NETWORK SN74LS14N				
0009A					U22				
0010	0002.000	EA		0972813-0001	NETWORK-SN74LS21N				
0010A					U18 U19				
0011	0001.000	EA		0972900-7474	NETWORK SN74LS74N				
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 A/D CONVERTER MODULE, 48 CHANNEL									
APPRO. MFG DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0949020-0003 C									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0949020-0003		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0011A					U21				
0012	0001.000	EA		022222-7123	NETWORK SN74123N				
0012A					U11				
0013	0001.000	EA		0972900-7139	NETWORK SN74LS139N	TI	-SN74LS139N		
0013A					U8				
0014	0002.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N		
0014A					U12 U13				
0015	0004.000	EA		0996565-0001	IC, 8-CHANNEL ANALOG MULTIPLEXER	034371-HI-1818A-5			
0015A					U1 U2 U3 U4				
0016	0001.000	EA		0996791-0001	POWER SUPPLY, 15 VOLT	031814-MP3025			
0016A					M1				
0017	0001.000	EA		0996+18-0001	ANALOG/DIGIT, DATA ACQUISITION MODULE	031814-MP6812-DRT			
0017A					M2				
0018	0006.000	EA		0539544-0002	SOCKET, 16PIN IC LOW PROFILE SOLDER TAIL	TI	-C93-16-02		
0018A					XU1 XU2 XU3 XU4 XU5 XU6				
0019	0002.000	EA		0996547-0003	SWITCH, 4PST, ROCKER, DIP	081073-76C04			
0019A					S1 S2				
0020	0002.000	FA		0996548-0003	COVER, SWITCH-4 FOCKER				
0021	0002.000	EA		0411226-0002	TERMINAL, STUD				
0021A					TP1 TP2				
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 A/D CONVERTER MODULE, 48 CHANNEL									
APPRO. MFG DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0949020-0003 C									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0949020-0003		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0022	0002.000	EA		05338+4-0001	EJECTOR, NYLON, NON-LOCKING, PWB				
0023	0001.000	EA		0940030-0001	NETWORK, RESISTOR, 1000 OHM				
0023A					RN1				
0024	00012.000	EA		0940029-0001	NETWORK, RESISTOR, 680 OHM				
0024A					RN2 THRU RN13				
0025	00006.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	FOH	- R-25		
0025A					R1 R6 R7 R8 R9 R10				
0026	00002.000	EA		0972946-0084	RES FIX 6.2K OHM 5% .25 W CARBON FILM	ROH	- R-25		
0026A					R2 R5				
0027	00002.000	EA		0972946-0010	RESISTOR, 5.1 OHMS .25W 5% FX INSULATED				
0027A					R3 R4				
0028	00001.000	FA		0972946-0053	RES FIX 330 OHM 5% .25 W CARBON FILM	ROH	- R-25		
0028A					R12				
0029	00001.000	EA		0972946-0049	RES FIX 220 OHM 5% .25 W CARBON FILM	FOH	- R-25		
0029A					R11				
0030	00003.000	EA		0996549-0002	CAPACITOR, 6.8 UF 20% 20V TANTALUM	031433-1330A685H020A			
0030A					C1 C2 C8				
0031	00002.000	EA		0996549-0003	CAPACITOR, TANTALUM 10V 15UF 20%	031433-1330A156H010A			
0031A					C3 C5				
0032	00002.000	EA		0972926-0006	CAP FIX MICA 500V 10.0 PF +/- 0.5 PF	QPL	-CH04C10000D		
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 A/D CONVERTER MODULE, 48 CHANNEL									
APPRO. MFG DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0949020-0003 C									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0949020-0003		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0032A					C6 C7				
0033	00015.000	EA		0419058-0002	CAPACITOR, .01 UF 20% 50V FX CER DIELEC	071590-UK50-103			
0033A					C4 C9 THRU C22				
0034	00004.000	EA		0972988-0013	SCREW 4-40 X .250 PAN HEAD CRCS				
0035	00001.000	EA		0972706-0001	CONNECTOR, PWB, 10P, RT. A, SDRTL, HDR, FLTCBL	015912-609-1002M			
0035A					P3				
0036	00008.000	EA		0772696-0010	HEADER, 3 PIA .300LG SGL ROW, STRIP OF 3	-0002364			
0037	00001.000	FA		0996543-0003	RECEPTACLE, 72 POSITION, .25 SQ. POST	000779-3-860			
0037A					P4				
0038	REF	EA		0949022-9901	LOGIC DIAGRAM, 990 A/D CONVERTER MODULE				
0039	REF	EA		0949023-5501	TEST PROCEDURE, 990 A/D CONVERTER MODULE				
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 A/D CONVERTER MODULE, 48 CHANNEL									
APPRO. MFG DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0949020-0003 C									

TEXAS INSTRUMENTS INCORPORATED		DATE 04/23/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0949020-0004		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0949021-0001	PWB, 990 A/D CONVERTER MODULE						
0002	00001.000	EA		0222222-7403	NETWORK SN7403N						
0002A					U7						
0003	00001.000	EA		0222222-7150	NETWORK SN74150N						
0003A					U14						
0004	00002.000	EA		0972159-7265	NETWORK, SN74265N						
0004A					U9 U10						
0005	00001.000	EA		0972900-7402	NETWORK SN74LS02N						
0005A					U16						
0006	00001.000	EA		0972900-7404	NETWORK SN74LS04N						
0006A					U17						
0007	00001.000	EA		0972749-0001	NETWORK, SN74LS08N						
0007A					U15						
0008	00001.000	EA		0972900-7410	NETWORK SN74LS10N						
0008A					U20						
0009	00001.000	EA		0972784-0002	NETWORK SN74LS14N						
0009A					U22						
0010	00002.000	EA		0972813-0001	NETWORK-SN74LS21N						
0010A					U18 U19						
0011	00001.000	EA		0972900-7474	NETWORK SN74LS74N						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 A/D CONVERTER MODULE, 64 CHANNEL APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0949020-0004 C											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/23/79		LIST of MATERIAL		PAGE 2 of		PART NUMBER LM0949020-0004		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0011A					U21						
0012	00001.000	EA		0222222-7123	NETWORK SN74123N						
0012A					U11						
0013	00001.000	EA		0972900-7139	NETWORK SN74LS139N	TI	-SN74LS139N				
0013A					U8						
0014	00002.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N				
0014A					U12 U13						
0015	00006.000	EA		0996565-0001	IC, 8-CHANNEL ANALOG MULTIPLEXER	034371-HI-1818A-5					
0015A					U1 U2 U3 U4 U5 U6						
0016	00001.000	EA		0996791-0001	POWER SUPPLY, 15 VOLT	031814-MP3025					
0016A					M1						
0017	00001.000	EA		0996418-0001	ANALOG/DIGIT, DATA ACQUISITION MODULE	031814-MP6812-DAT					
0017A					M2						
0018	00006.000	EA		0539544-0002	SOCKET, 16PIN IC LOW PROFILE SOLDER TAIL	TI	-C93-16-02				
0018A					XU1 XU2 XU3 XU4 XU5 XU6						
0019	00002.000	EA		0996547-0003	SWITCH, 4PST, ROCKER, DIP	081073-76C04					
0019A					S1 S2						
0020	00002.000	EA		0996548-0003	COVER, SWITCH-4 ROCKER						
0021	00002.000	EA		0411226-0002	TERMINAL, STUD						
0021A					TP1 TP2						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 A/D CONVERTER MODULE, 64 CHANNEL APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0949020-0004 C											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/23/79		LIST of MATERIAL		PAGE 3 of		PART NUMBER LM0949020-0004		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0022	00002.000	EA		053384-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0023	00001.000	EA		0540030-0001	NETWORK, RESISTOR, 1000 OHM						
0023A					KN1						
0024	00012.000	EA		0940029-0001	NETWORK, RESISTOR, 680 OHM						
0024A					RN2 THRU RN13						
0025	00006.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0025A					F1 R6 R7 R8 R9 R10						
0026	00002.000	EA		0972946-0084	RES FIX 6.2K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0026A					R2 R5						
0027	00002.000	EA		0972946-0010	RESISTOR, 5.1 OHMS, .25W 5% FX INSULATED						
0027A					R3 R4						
0028	00001.000	EA		0972946-0053	RES FIX 330 OHM 5% .25 W CARBON FILM	POH	- R-25				
0028A					R12						
0029	00001.000	EA		0972946-0049	RES FIX 220 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0029A					R11						
0030	00003.000	EA		0996549-0002	CAPACITOR, 6.8 UF 20% 20V TANTALUM	031433-T330A6854020A5					
0030A					C1 C2 C8						
0031	00002.000	EA		0996549-0003	CAPACITOR, TANTALUM 10V 15UF 20%	031433-T330A156H010A5					
0031A					C3 C5						
0032	00002.000	EA		0972926-0006	CAP FIX MICA 500V 10.0 PF +/- 0.5 PF	QPL	-CM04C100000				
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 A/D CONVERTER MODULE, 64 CHANNEL APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0949020-0004 C											

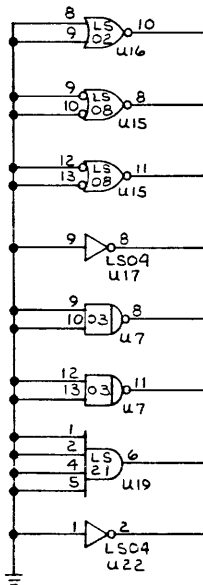
TEXAS INSTRUMENTS INCORPORATED		DATE 04/23/79		LIST of MATERIAL		PAGE 4 of		PART NUMBER LM0949020-0004		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0032A					C6 C7						
0033	00015.000	EA		0419058-0002	CAPACITOR, .01 UF 20% 50V FX CER DIELEC	071590-UK50-103					
0033A					C4 C9 THRU C22						
0034	00004.000	EA		0572988-0013	SCREW 4-40 X .250 PAN HEAD CPES						
0035	00001.000	EA		0972706-0001	CONNECTOR, PWR, 10P, RT. A, SDRTL, HDR, FLTCBL	015912-609-1002M					
0035A					P3						
0036	00008.000	EA		0772696-0010	HEADER, 3 PIN .300LG SGL ROW, STRIP OF 3	-0002364					
0037	00001.000	EA		0996543-0003	RECEPTACLE, 72 POSITION, .25 SQ. POST	000779-3-860					
0037A					P4						
0038	REF	EA		0949022-9901	LOGIC DIAGRAM, 990 A/D CONVERTER MODULE						
0039	REF	EA		0949023-9901	TEST PROCEDURE, 990 A/D CONVERTER MODULE						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE 990 A/D CONVERTER MODULE, 64 CHANNEL APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0949020-0004 C											

INPUT CONFIGURATION	S1-1	S1-3	S1-4	S2-3	S2-4	PIN 1 TOP EDGE CONNECTOR
SINGLE-ENDED	A	A	A	A	A	CONNECTED TO PIN A OF
DIFFERENTIAL	B	B	B	B	B	TOP EDGE CONNECTOR

INPUT VOLTAGE RANGE	S2-1	S2-2
0V TO +10.24V	A	B
0V TO +5.12V	A	A
-10.24V TO +10.24V	B	B
-5.12V TO +5.12V	B	A

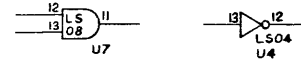
OUTPUT CODING	S1-2
STRAIGHT BINARY	A
OFFSET BINARY	A
2'S COMPLEMENT	B

SPARES



NOTES UNLESS OTHERWISE SPECIFIED

1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



- LS08 AND LS04 = DEVICE TYPE
 11, 12, AND 13 = PIN NUMBERS
 U7 AND U4 = REFERENCE DESIGNATOR
5. RESISTORS INSIDE DASHED LINES ARE OPTIONAL.

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		REVISED TO 2-4-77	2-4-77
B		REVISED TO (D) RCD	5-19-77
C		REVISED TO (D) RCD	8-22-77

REV STATUS	REV	C	B	C
OF SHEETS	SHEET	1	2	3 4

QTY REQD	-2	-1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED

- REMOVE ALL BURRS AND SHARP EDGES
- CONCENTRICITY MACHINED
- DIAMETERS .010 FPI
- DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
- IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
- INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100

HOLE TOLERANCE

013 - .004	126 - .008	250 - .008
THRU - .001	THRU - .001	THRU - .001
127	250	500

501 - .008 THRU - .001 750 - .010 THRU - .001 1.001 - .012 THRU - .001 2.000 - .001

APPLICATION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES
- TOLERANCES ANGLES ±
- 3 PLACE DECIMALS ±.010
- 2 PLACE DECIMALS ±.02

MATERIAL:

OWN: *M. F. Buckley* 2-4-77
 CHK: *C. REELES* 2/13/77
 ENGR: *[Signature]* 4/19/77
 QA: *[Signature]* 7/1/77
 APVD: *[Signature]* 9/1/77
 CONTR NO

DESIGN ACTIVITY RELEASE

DATE

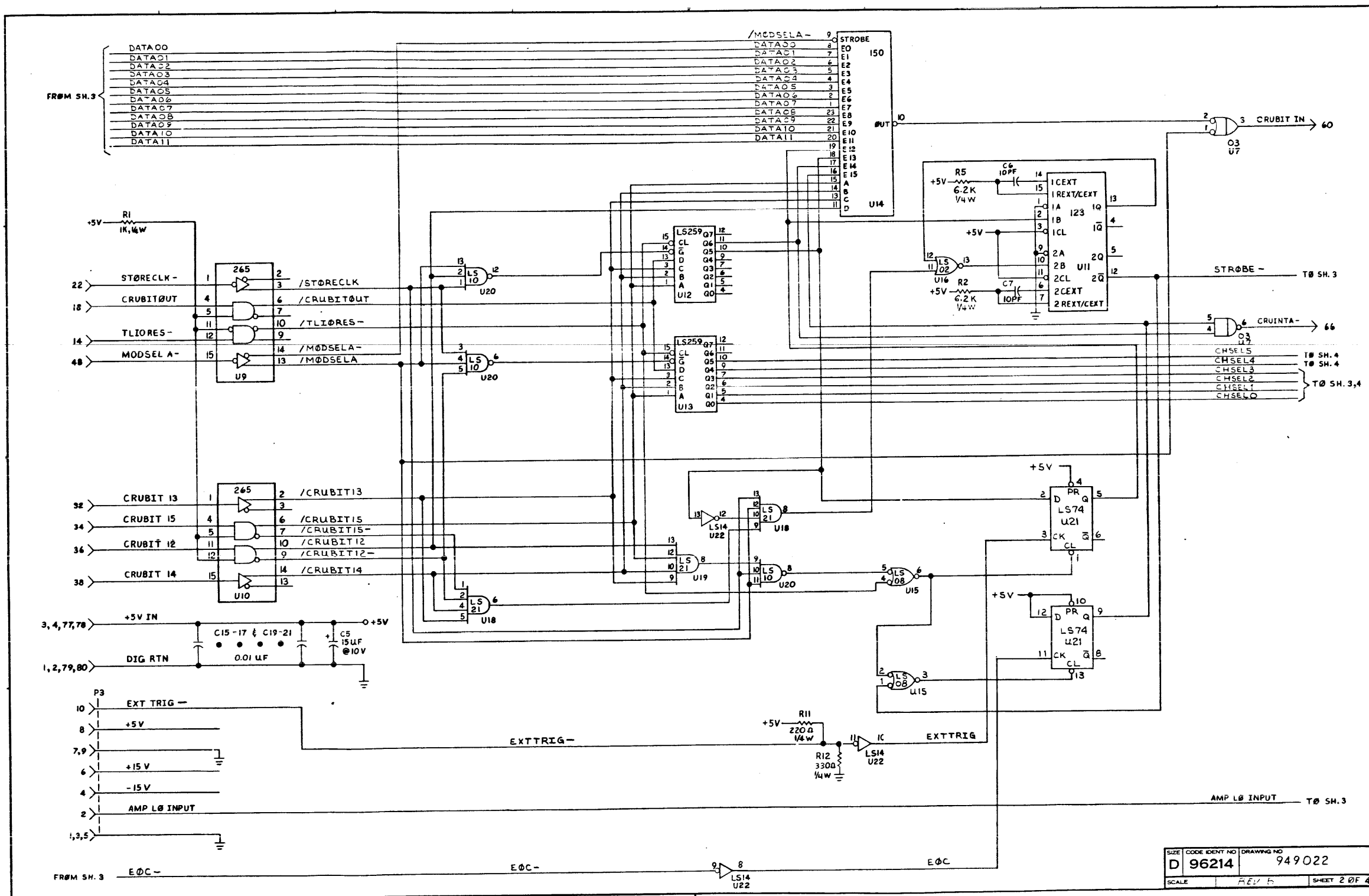
SCALE

TEXAS INSTRUMENTS
 INCORPORATED
 Equipment Group Dallas, Texas

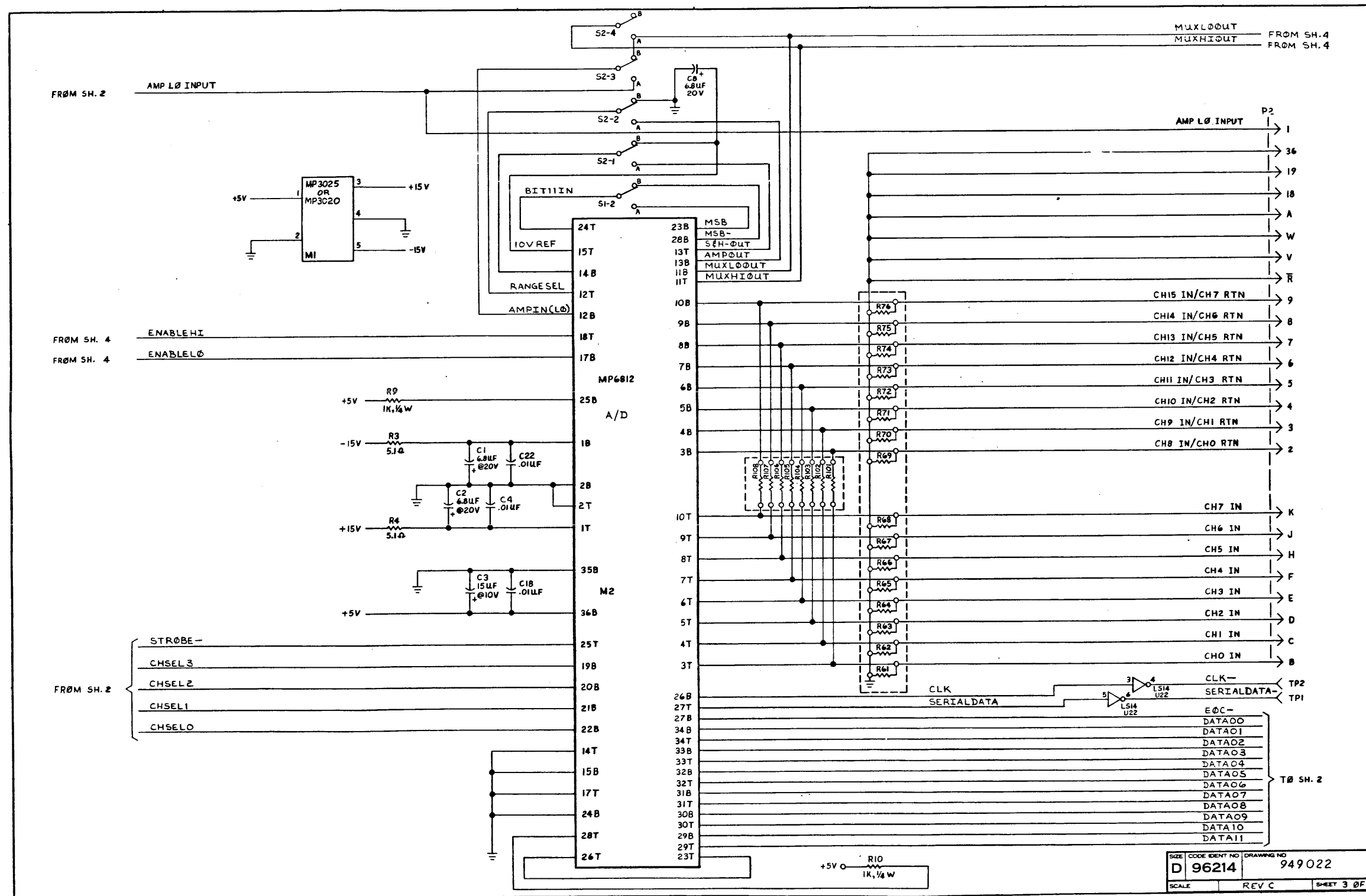
LOGIC DIAGRAM
 ANALOG TO DIGITAL CONVERTER

SIZE: D 96214 DRAWING NO: 949022

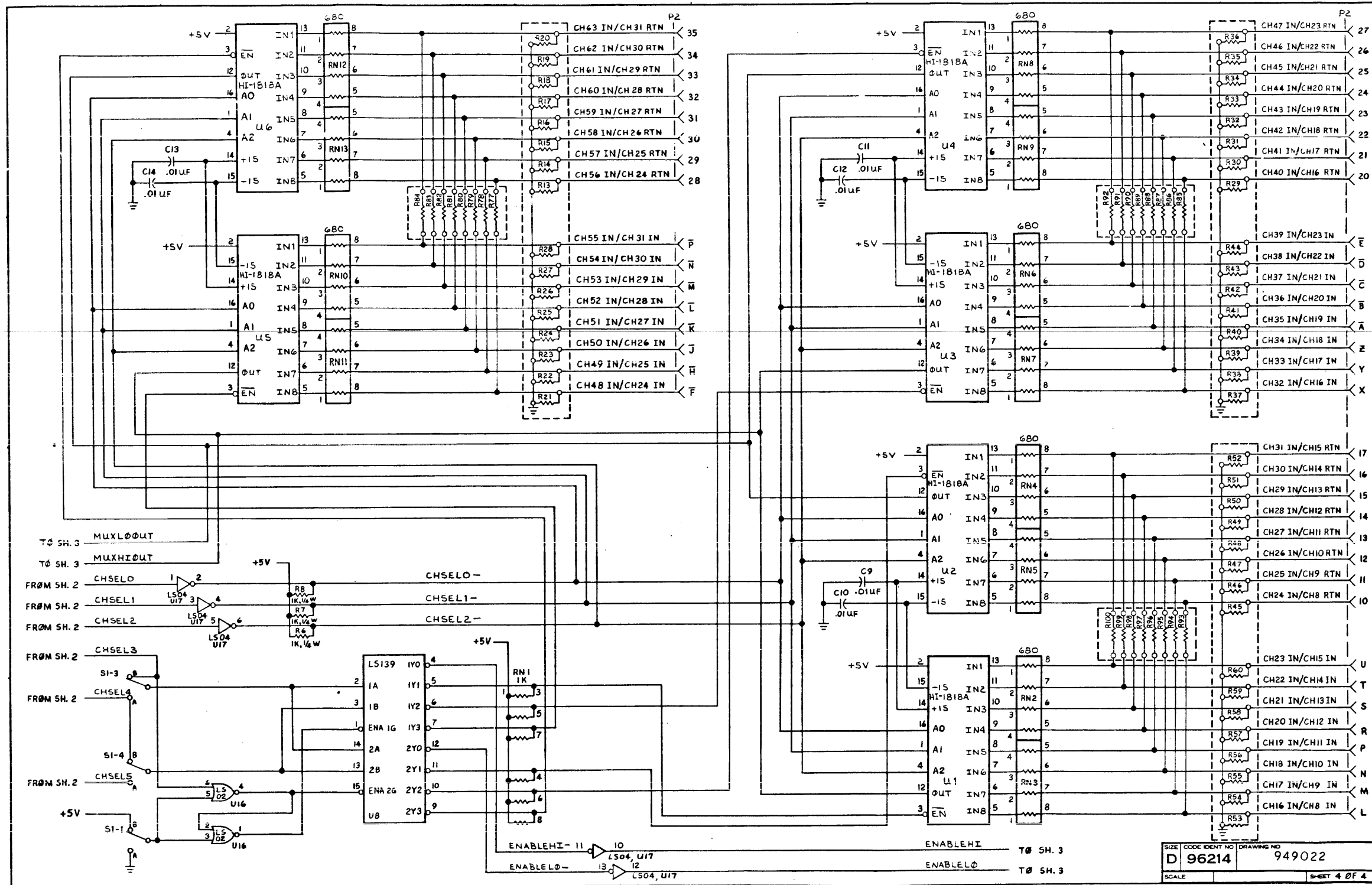
SHEET 1 OF 4



SIZE	CODE IDENT NO	DRAWING NO
D	96214	949022
SCALE	REV	SHEET 2 OF 4



SIZE	CODE IDENT NO	DRAWING NO
D	96214	949022
SCALE	REV C	SHEET 3 OF 4



NOTES: UNLESS OTHERWISE SPECIFIED:

1. ITEM 32 IS A GROUP SET OF MATCHED PRECISION RESISTORS CONSISTING OF TWO PARTS, A 5000 Ω AND A 500 Ω RESISTOR. INSTALL THE RESISTOR SET AS FOLLOWS (CAUTION: DO NOT MIX RESISTORS FROM DIFFERENT SETS):

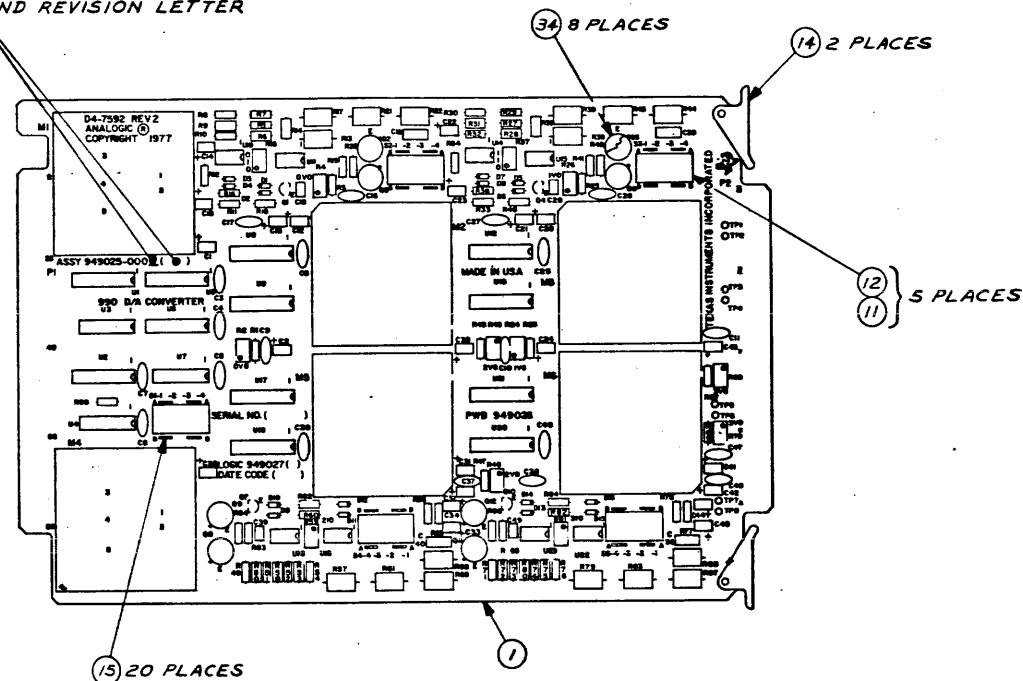
R13 5000 Ω } SET
R17 500 Ω } SET
R35 5000 Ω } SET
R39 500 Ω } SET
R57 5000 Ω } SET
R61 500 Ω } SET
R79 5000 Ω } SET
R83 500 Ω } SET

2. ITEM 33 IS A GROUP SET OF MATCHED PRECISION RESISTORS CONSISTING OF TWO PARTS, A 500 Ω AND A 50 Ω RESISTOR. INSTALL THE RESISTOR SET AS FOLLOWS (CAUTION: DO NOT MIX RESISTORS FROM DIFFERENT SETS):

R22 500 Ω } SET
R21 50 Ω } SET
R44 500 Ω } SET
R43 50 Ω } SET
R66 500 Ω } SET
R65 50 Ω } SET
R88 500 Ω } SET
R87 50 Ω } SET

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ENHANCED D/A CONV. OF ITEM 3 FOR 0001 THRU 0004 WAS 996416-0001 (2) UPDATE REV LEVEL BLOCK	5-23-79	E. Wing

MARK APPROPRIATE DASH NUMBER AND REVISION LETTER



-0004 SHOWN

REVISION LEVEL

TEST PROC 949028-9901	*	*		
LOGIC 949027-9901	*	A		
PWB 949026-0001	*	*		
ASSEMBLY 949025	*	A		

949025-0004	990 D/A CONVERTER MODULE, 4 CHANNEL
949025-0003	990 D/A CONVERTER MODULE, 3 CHANNEL
949025-0002	990 D/A CONVERTER MODULE, 2 CHANNEL
949025-0001	990 D/A CONVERTER MODULE, 1 CHANNEL
PART NUMBER	DESCRIPTION

PROCESSES:

- SOLDER PER F-127, METHOD I AND/OR F-124, METHOD 2
- MARK PER F-100, METHOD II, CLASS I, HEIGHT .12, COLOR BLACK
- MARK PER F-100, METHOD VII, CLASS 8, COLOR BLACK, TYPE 6

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES																								
			990 D/A CONVERTER MODULE																										
<p>UNLESS OTHERWISE SPECIFIED:</p> <ul style="list-style-type: none"> DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES ±1°, 3 PLACE DECIMALS ±.010, 2 PLACE DECIMALS ±.02 INTERPRET DRAWING PER MIL-D-1000 REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIM DIMENSIONAL LIMITS APPLY BEFORE PROCESSES PARENTHETICAL INFO FOR REF ONLY 																													
<p>HOLE TOLERANCE</p> <table border="1"> <tr> <td>013</td> <td>126</td> <td>251</td> <td>006</td> </tr> <tr> <td>THRU - 004</td> <td>THRU - 005</td> <td>THRU - 001</td> <td></td> </tr> <tr> <td>125 - 001</td> <td>250 - 001</td> <td>500 - 001</td> <td></td> </tr> <tr> <td>501</td> <td>751</td> <td>1,001</td> <td>012</td> </tr> <tr> <td>THRU - 001</td> <td>THRU - 001</td> <td>THRU - 001</td> <td>THRU - 001</td> </tr> <tr> <td>250 - 001</td> <td>1,000</td> <td>2,000</td> <td></td> </tr> </table>						013	126	251	006	THRU - 004	THRU - 005	THRU - 001		125 - 001	250 - 001	500 - 001		501	751	1,001	012	THRU - 001	THRU - 001	THRU - 001	THRU - 001	250 - 001	1,000	2,000	
013	126	251	006																										
THRU - 004	THRU - 005	THRU - 001																											
125 - 001	250 - 001	500 - 001																											
501	751	1,001	012																										
THRU - 001	THRU - 001	THRU - 001	THRU - 001																										
250 - 001	1,000	2,000																											
GEN USE	7506																												
NEXT ASSY	USED ON																												
APPLICATION																													
			DATE: 6/22/77	TEXAS INSTRUMENTS INCORPORATED Dallas, Texas																									
			DATE: 7-21-77	990 D/A CONVERTER MODULE																									
			DATE: 7-15-77	D96214 949025																									
			DATE: 7-17-77	SHEET NO. 1 OF 1																									

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES

PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS SEE TI DRAWING 729467

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0949025-0001		REV A	
DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0949026-0001	PWB, 990 D/A CONVERTER MODULE				
0002	0001.000	EA		0972900-7404	NETWORK SN74LS04N				
0002A					U4				
0003	0001.000	EA		0972749-0001	NETWORK, SN74LS08N				
0003A					U7				
0004	0001.000	EA		0972900-7410	NETWORK SN74LS10N				
0004A					U3				
0005	0002.000	EA		0972900-7174	NETWORK SN74LS174N				
0005A					U8 U9				
0006	0002.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N		
0006A					U5 U6				
0007	0002.000	EA		0972159-7265	NETWORK, SN74265N				
0007A					U1 U2				
0008	0002.000	EA		0996542-0001	IC, OPERATIONAL AMP MC1456V				
0008A					U10 U11				
0009	0001.000	EA		0996791-0001	POWER SUPPLY, 15 VOLT	031814-MP3025			
0009A					M1				
0010	0001.000	EA		0996417-0001	IC, 12-BIT DIGIT/ANALOG CONVERTER	031814-MP1412-M009			
0010A					M2				
0011	0002.000	EA		0996547-0003	SWITCH, 4PST, ROCKER, DIP	081073-76C04			
DRAFTSMAN DATE 5-1-79 TITLE 990 D/A CONVERTER MODULE, 1 CHANNEL APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. 7506 PART NUMBER LM0949025-0001 REV A									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0949025-0001		REV A	
DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0011A					S1 S2				
0012	0002.000	EA		0996548-0003	COVER, SWITCH-4 ROCKER				
0013	0002.000	EA		0411226-0002	TERMINAL, STUD				
0013A					TP1 TP2				
0014	0002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB				
0015	0008.000	EA		0772696-0010	HEADER, 3 PIN .300LG SGL ROW, STRIP OF 3	-0002364			
0016	0004.000	EA		0972932-0001	DIODE, 1N914B SWITCHING 75V PIV 75MA 4MS	TI	-IN914B		
0016A					D1 D2 D3 D4				
0017	0001.000	EA		0236091-0020	XST 2N3904	-2N3904			
0017A					Q1				
0018	0001.000	EA		0996567-0001	TRANSISTER, N-P-N, 5-WATT, LINEAR AMPLR	002735-40317			
0018A					Q2				
0019	0001.000	EA		0996567-0002	TRANSISTER, N-P-N, 5-WATT, LINEAR AMPLR	002735-40319			
0019A					Q3				
0020	0001.000	EA		0996544-0004	RESISTOR, VARIABLE 10K, 10% .5W MINIATURE	032997-3299W-1-103			
0020A					R15				
0021	0002.000	EA		0996544-0005	RESISTOR, VARIABLE 20K, 10% .5W MINIATURE	032997-3299W-1-203			
0021A					R2 R4				
0022	0001.000	EA		0972946-0123	FES FIX 270K OHM 5% .25 W CARBON FILM	ROH - R-25			
0022A					R1				
DRAFTSMAN DATE 5-1-79 TITLE 990 D/A CONVERTER MODULE, 1 CHANNEL APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0949025-0001 REV A									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0949025-0001		REV A	
DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0023	0001.000	EA		0972946-0129	RES FIX 470K OHM 5% .25 W CARBON FILM	ROH - R-25			
0023A					R3				
0024	0001.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	ROH - R-25			
0024A					R10				
0025	0001.000	EA		0972946-0084	RES FIX 6.2K OHM 5% .25 W CARBON FILM	ROH - R-25			
0025A					R16				
0026	0001.000	EA		0972946-0055	RES FIX 390 OHM 5% .25 W CARBON FILM	ROH - R-25			
0026A					R18				
0027	0001.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH - R-25			
0027A					R89				
0028	0002.000	EA		0972946-0010	RESISTOR, 5.1 OHMS .25W 5% FX INSULATED				
0028A					R11 R12				
0029	0002.000	EA		0972946-0017	RES FIX 10.0 OHM 5% .25 W CARBON FILM	ROH - R-25			
0029A					R19 R20				
0030	0002.000	EA		0996545-0001	RESISTOR, FIXED 20,000 OHMS, 0.1% .1 WATT	007716-MAK5-FIL3-20K			
0030A					R6 R9				
0031	0001.000	EA		0539374-0347	RESISTOR, 402 OHM .25W 1% FIXED FILM	026546-NC60-50 PPM/C			
0031A					R14				
0032	0001.000	EA		0940027-0001	RESISTORS, MATCHED GROUP SET, 5000/500				
0032A					R13-R17				
DRAFTSMAN DATE 5-1-79 TITLE 990 D/A CONVERTER MODULE, 1 CHANNEL APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0949025-0001 REV A									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0949025-0001		REV A	
DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0032B					SEE NOTE 1				
0033	0001.000	EA		0940028-0001	RESISTORS, MATCHED GROUP SET, 500/50 OHM				
0033A					R22-R21				
0033B					SEE NOTE 2				
0034	0002.000	EA		0232583-0025	TO-5 MOUNTING PAD, 4-LEADS, TEFLON	-SEE TI DWG			
0035	REF	EA		0949027-9901	LOGIC DIAGRAM, 990 D/A CONVERTER MODULE				
0036	REF	EA		0949028-9901	TEST PROCEDURE, 990 D/A CONVERTER MODULE				
0037	0001.000	EA		0419058-0002	CAPACITOR, .01 UF 20% 50V FX CER DIELEC	071590-UK50-103			
0037A					C3 C4 C5 C6 C7 C8 C9 C10				
0037B					C11 C16 C17				
0038	0002.000	EA		0996549-0003	CAPACITOR, TANTALUM 10V 15UF 20%	031433-T330A156M010A5			
0038A					C1 C2				
0039	0004.000	EA		0996549-0002	CAPACITOR, 6.8 UF 20% 20V TANTALUM	031433-T330A685M020A5			
0039A					C12 C13 C14 C15				
DRAFTSMAN DATE 5-1-79 TITLE 990 D/A CONVERTER MODULE, 1 CHANNEL APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0949025-0001 REV A									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 04/23/79		PAGE 1 of		PART NUMBER LM 0949025-0002		REV A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0949026-0001	PWB, 990 D/A CONVERTER MODULE						
0002	00001.000	EA		0972900-7404	NETWORK SN74LS04M						
0002A					U4						
0003	00001.000	EA		0972749-0001	NETWORK, SN74LS08M						
0003A					U7						
0004	00001.000	EA		0972900-7410	NETWORK SN74LS10M						
0004A					U3						
0005	00004.000	EA		0972900-7174	NETWORK SN74LS174M						
0005A					U8 U9 U12 U13						
0006	00002.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259M	TI	-SN74LS259M				
0006A					U5 U6						
0007	00002.000	EA		0972159-7265	NETWORK, SN74265M						
0007A					U1 U2						
0008	00004.000	EA		0996542-0001	IC, OPERATIONAL AMP MC1456V						
0008A					U10 U11 U14 U15						
0009	00001.000	EA		0996791-0001	POWER SUPPLY, 15 VOLT	031814-MP3025					
0009A					M1						
0010	00002.000	EA		0996417-0001	IC, 12-BIT DIGIT/ANALOG CONVERTER	031814-MP1412-M009					
0010A					M2 M3						
0011	00003.000	EA		0996547-0003	SWITCH, 4PST, ROCKER, DIP	081073-76C04					
DRAFTSMAN: _____ DATE: _____ CRO. DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: 990 D/A CONVERTER MODULE, 2 CHANNEL APPR. -MFC: _____ DATE: _____ APPR. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO.: _____ PART NUMBER: LM 0949025-0002 REV: A											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 04/23/79		PAGE 2 of		PART NUMBER LM 0949025-0002		REV A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0011A					S1 S2 S3						
0012	00003.000	EA		0996548-0003	COVER, SWITCH-4 ROCKER						
0013	00004.000	EA		0411226-0002	TERMINAL, STUD						
0013A					TP1 TP2 TP3 TP4						
0014	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0015	00012.000	EA		0772696-0010	HEADER, 3 PIN .300LG SGL ROW, STRIP OF 3	-0002364					
0016	00008.000	EA		0972932-0001	DIODE, IN914B SWITCHING 75V PIV 75MA 4MS	TI	- IN914B				
0016A					D1 D2 D3 D4 D5 D6 D7 D8						
0017	00002.000	EA		0236091-0020	XST 2N3904	-2N3904					
0017A					Q1 Q4						
0018	00002.000	EA		0996567-0001	TRANSISTER, N-P-N, 5-WATT, LINEAR AMPLR	002735-40317					
0018A					Q2 Q5						
0019	00002.000	EA		0996567-0002	TRANSISTER, P-N-P, 5-WATT, LINEAR AMPLR	002735-40319					
0019A					Q3 Q6						
0020	00002.000	EA		0996544-0004	RESISTOR, VARIABLE 10K, 10% .5W MINIATURE	032997-3299M-1-103					
0020A					R15 R37						
0021	00004.000	EA		0996544-0005	RESISTOR, VARIABLE 20K, 10% .5W MINIATURE	032997-3299M-1-203					
0021A					R2 R4 R24 R26						
0022	00002.000	EA		0972946-0123	RES FIX 270K OHM 5% .25 W CARBON FILM	ROH - R-25					
0022A					R1 R23						
DRAFTSMAN: _____ DATE: _____ CRO. DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: 990 D/A CONVERTER MODULE, 2 CHANNEL APPR. -MFC: _____ DATE: _____ APPR. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO.: _____ PART NUMBER: LM 0949025-0002 REV: A											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 04/23/79		PAGE 3 of		PART NUMBER LM 0949025-0002		REV A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0023	00002.000	EA		0972946-0129	RES FIX 470K OHM 5% .25 W CARBON FILM	ROH - R-25					
0023A					R3 R25						
0024	00002.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	ROH - R-25					
0024A					R10 R32						
0025	00002.000	EA		0972946-0084	RES FIX 6.2K OHM 5% .25 W CARBON FILM	ROH - R-25					
0025A					R16 R38						
0026	00002.000	EA		0972946-0055	RES FIX 390 OHM 5% .25 W CARBON FILM	ROH - R-25					
0026A					R18 R40						
0027	00001.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH - R-25					
0027A					R89						
0028	00004.000	EA		0972946-0010	RESISTOR, 5.1 OHMS .25W 5% FX INSULATED						
0028A					R11 R12 R33 R34						
0029	00004.000	EA		0972946-0017	RES FIX 10.0 OHM 5% .25 W CARBON FILM	ROH - R-25					
0029A					R19 R20 R41 R42						
0030	00004.000	EA		0996545-0001	RESISTOR, FIXED 20,000 OHMS, 0.1% .1 WATT	007716-MAR5-TI13-20K					
0030A					R6 R9 R28 R31						
0031	00002.000	EA		0539374-0347	RESISTOR, .02 OHM .25W 1% FIXED FILM	024546-NC60-50 PPMVC					
0031A					P14 R36						
0032	00002.000	EA		0940027-0001	RESISTORS, MATCHED GROUP SET, 5000/500						
0032A					R13-R17 R35-R39						
DRAFTSMAN: _____ DATE: _____ CRO. DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: 990 D/A CONVERTER MODULE, 2 CHANNEL APPR. -MFC: _____ DATE: _____ APPR. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO.: _____ PART NUMBER: LM 0949025-0002 REV: A											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 04/23/79		PAGE 4 of		PART NUMBER LM 0949025-0002		REV A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0032B					SEE NOTE 1						
0033	00002.000	EA		0940028-0001	RESISTORS, MATCHED GROUP SET, 500/50 OHM						
0033A					R22-R21 R44-R43						
0033B					SEE NOTE 2						
0034	00004.000	EA		0232583-0025	TO-5 MOUNTING PAD, 4-LEADS, TEFLON	-SEE TI DWG					
0035	REF	EA		0949027-9901	LOGIC DIAGRAM, 990 D/A CONVERTER MODULE						
0036	REF	EA		0949028-9901	TEST PROCEDURE, 990 D/A CONVERTER MODULE						
0037	00014.000	EA		0419058-0002	CAPACITOR, .01 UF 20% 50V FX CER DIELEC	071590-UK50-103					
0037A					C3 C4 C5 C6 C7 C8 C9 C10						
0037B					C11 C16 C17 C25 C26 C27						
0038	00003.000	EA		0996549-0003	CAPACITOR, TANTALUM 10V 15UF 20%	031433-T330A156M010A5					
0038A					C1 C2 C24						
0039	00008.000	EA		0996549-0002	CAPACITOR, 6.8 UF 20% 20V TANTALUM	031433-T330A685M020A5					
0039A					C12 C13 C14 C15 C20 C21 C22						
0039B					C23						
DRAFTSMAN: _____ DATE: _____ CRO. DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: 990 D/A CONVERTER MODULE, 2 CHANNEL APPR. -MFC: _____ DATE: _____ APPR. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO.: _____ PART NUMBER: LM 0949025-0002 REV: A											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0949025-0003		REV A		
DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0949026-0001	PWB, 990 D/A CONVERTER MODULE					
0002	00001.000	FA		0972900-7404	NETWORK SN74LS04N					
0002A					U4					
0003	00001.000	EA		0972749-0001	NETWORK, SN74LS08N					
0003A					U7					
0004	00001.000	EA		0972900-7410	NETWORK SN74LS10N					
0004A					U3					
0005	00006.000	EA		0972900-7174	NETWORK SN74LS174N					
0005A					U8 U9 U12 U13 U16 U17					
0006	00002.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N			
0006A					U5 U6					
0007	00002.000	EA		0972159-7265	NETWORK, SN74265N					
0007A					U1 U2					
0008	00006.000	EA		0996542-0001	IC, OPERATIONAL AMP MC1456V					
0008A					U10 U11 U14 U15 U18 U19					
0009	00002.000	EA		0996791-0001	POWER SUPPLY, 15 VOLT	031814-MP3025				
0009A					M1 M4					
0010	00003.000	EA		0996417-0001	IC, 12-BIT DIGIT/ANALOG CONVERTER	031814-MP1412-MOD9				
0010A					M2 M3 M5					
0011	00004.000	EA		0996547-0003	SWITCH, 4PST, ROCKER, DIP	081073-76C04				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 D/A CONVERTER MODULE, 3 CHANNEL		
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0949025-0003		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0949025-0003		REV A		
DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0011A					S1 S2 S3 S4					
0012	00004.000	EA		0996548-0003	COVER, SWITCH-4 ROCKER					
0013	00006.000	EA		0411226-0002	TERMINAL, STUD					
0013A					TP1 TP2 TP3 TP4 TP5 TP6					
0014	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB					
0015	00016.000	EA		0772696-0010	HEADER, 3 PIN .300LG SGL ROW, STRIP OF 3	-0002364				
0016	00012.000	EA		0972932-0001	DIODE, 1N914B SWITCHING 75V PIV 75MA 4NS	TI	- IN914B			
0016A					D1 D2 D3 D4 D5 D6 D7 D8 D9					
0016B					D10 D11 D12					
0017	00003.000	EA		0236091-0020	XST 2N3904	-2N3904				
0017A					Q1 Q4 Q7					
0018	00003.000	EA		0996567-0001	TRANSISTER, P-N-P, 5-WATT, LINEAR AMPLK	002735-40317				
0018A					Q2 Q5 Q8					
0019	00003.000	EA		0996567-0002	TRANSISTER, P-N-P, 5-WATT, LINEAR AMPLR	002735-40319				
0019A					Q3 Q6 Q9					
0020	00003.000	EA		0996544-0004	RESISTOR, VARIABLE 10K, 10% .5W MINIATURE	032997-3299W-1-103				
0020A					R15 R37 R59					
0021	00006.000	EA		0996544-0005	RESISTOR, VARIABLE 20K, 10% .5W MINIATURE	032997-3299W-1-203				
0021A					R2 R4 R24 R26 R46 R48					
0022	00003.000	EA		0972946-0123	RES FIX 270K OHM 5% .25 W CARBON FILM	ROH	- R-25			
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 D/A CONVERTER MODULE, 3 CHANNEL		
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0949025-0003		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0949025-0003		REV A		
DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0022A					R1 R23 R45					
0023	00003.000	EA		0972946-0129	RES FIX 470K OHM 5% .25 W CARBON FILM	ROH	- R-25			
0023A					R3 R25 R47					
0024	00003.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	ROH	- R-25			
0024A					R10 R32 R54					
0025	00003.000	EA		0972946-0084	RES FIX 6.2K OHM 5% .25 W CARBON FILM	ROH	- R-25			
0025A					R16 R38 R60					
0026	00003.000	EA		0972946-0055	RES FIX 390 OHM 5% .25 W CARBON FILM	ROH	- R-25			
0026A					R18 R40 R62					
0027	00001.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	- R-25			
0027A					R89					
0028	00006.000	EA		0972946-0010	RESISTOR, 5-1 OHMS .25W 5% FX INSULATED					
0028A					R11 R12 R33 R34 R55 R56					
0029	00006.000	EA		0972946-0017	RES FIX 10.0 OHM 5% .25 W CARBON FILM	ROH	- R-25			
0029A					R19 R20 R41 R42 R63 R64					
0030	00006.000	EA		0996545-0001	RESISTOR, FIXED 20,000 OHMS, 0.1% .1 WATT	007716-MAR5-TI13-20K				
0030A					R6 R9 R28 R31 R50 R53					
0031	00003.000	EA		0539374-0347	RESISTOR, 402 OHM .25W 1% FIXED FILM	024546-NC60-50 PPM/C				
0031A					R14 R36 R58					
0032	00003.000	EA		0940027-0001	RESISTORS, MATCHED GROUP SET, 5000/500					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 D/A CONVERTER MODULE, 3 CHANNEL		
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0949025-0003		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0949025-0003		REV A		
DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		DATE 04/23/79		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0032A					R13-R17 R35-R39 R57-R61					
0032B					SEE NOTE 1					
0033	00003.000	EA		0940028-0001	RESISTORS, MATCHED GROUP SET, 500/50 OHM					
0033A					R22-R21 R44-R43 R66-R65					
0033B					SEE NOTE 2					
0034	00006.000	EA		0232583-0025	TO-5 MOUNTING PAD, 4-LEADS, TEFLON	-SEE TI DWG				
0035	REF	EA		0949027-9901	LOGIC DIAGRAM, 990 D/A CONVERTER MODULE					
0036	REF	EA		0949028-9901	TEST PROCEDURE, 990 D/A CONVERTER MODULE					
0037	00017.000	EA		0419058-0002	CAPACITOR, .01 UF 20% 50V FX CER DIELEC	071590-UK50-103				
0037A					C3 C4 C5 C6 C7 C8 C9 C10					
0037B					C11 C16 C17 C25 C26 C27					
0037C					C36 C37 C38					
0038	00005.000	EA		0996549-0003	CAPACITOR, TANTALUM 10V 15UF 20%	031433-T330A156M010A5				
0038A					C1 C2 C24 C30 C35					
0039	00012.000	EA		0996549-0002	CAPACITOR, 6.8 UF 20% 20V TANTALUM	031433-T330A685M020A5				
0039A					C12 C13 C14 C15 C20 C21 C22					
0039B					C23 C31 C32 C33 C34					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 D/A CONVERTER MODULE, 3 CHANNEL		
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0949025-0003		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0949025-0004		REV A		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	0001.000	EA		0949026-0001	PWB, 990 D/A CONVERTER MODULE					
0002	0001.000	EA		0972900-7404	NETWORK SN74LS04N					
0002A					U4					
0003	0001.000	EA		0972749-0001	NETWORK, SN74LS08N					
0003A					U7					
0004	0001.000	EA		0972900-7410	NETWORK SN74LS10N					
0004A					U3					
0005	0008.000	EA		0972900-7174	NETWORK SN74LS174N					
0005A					U8 U9 U12 U13 U16 U17 U20					
0005B					U21					
0006	0002.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N			
0006A					U5 U6					
0007	0002.000	EA		0972159-7265	NETWORK, SN74265N					
0007A					U1 U2					
0008	0008.000	EA		0996542-0001	IC, OPERATIONAL AMP MC1456V					
0008A					U10 U11 U14 U15 U18 U19 U22					
0008B					U23					
0009	0002.000	EA		0996791-0001	POWER SUPPLY, 15 VOLT	031814-MP3025				
0009A					M1 M4					
0010	0004.000	EA		0996417-0001	IC, 12-BIT DIGIT/ANALOG CONVERTER	031814-MP1412-MOD9				
DRAFTSMAN: DATE: CED: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: 990 D/A CONVERTER MODULE, 4 CHANNEL APPR: ENG: DATE: APPR: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO.: PART NUMBER: LM 0949025-0004 REV: A										

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0949025-0004		REV A		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0010A					M2 M3 M5 M6					
0011	0005.000	EA		0996547-0003	SWITCH, 4PST, ROCKER, DIP	081073-74C04				
0011A					S1 S2 S3 S4 S5					
0012	0005.000	EA		0996548-0003	COVER, SWITCH-4 ROCKER					
0013	0008.000	EA		0411226-0002	TERMINAL, STUD					
0013A					TP1 TP2 TP3 TP4 TP5 TP6 TP7					
0013B					TP8					
0014	0002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB					
0015	0002.000	EA		0772696-0010	HEADER, 3 PIN .300LG SGL ROW, STRIP OF 3	-0002364				
0016	0001.000	EA		0972932-0001	DIODE, IN914B SWITCHING 75V PIV 75MA 4NS	TI	- IN914B			
0016A					D1 D2 D3 D4 D5 D6 D7 D8 D9					
0016B					D10 D11 D12 D13 D14 D15 D16					
0017	0004.000	EA		0236091-0020	XST 2N3904	-2N3904				
0017A					Q1 Q4 Q7 Q10					
0018	0004.000	EA		0996567-0001	TRANSISTER, N-P-N, 5-WATT, LINEAR AMPLR	002735-40317				
0018A					Q2 Q5 Q8 Q11					
0019	0004.000	EA		0996567-0002	TRANSISTER, P-N-P, 5-WATT, LINEAR AMPLR	002735-40319				
0019A					Q3 Q6 Q9 Q12					
0020	0004.000	EA		0996544-0004	RESISTOR, VARIABLE 10K, 10% .5W MINIATURE	032997-3299W-1-103				
0020A					R15 R37 P59 R81					
DRAFTSMAN: DATE: CED: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: 990 D/A CONVERTER MODULE, 4 CHANNEL APPR: ENG: DATE: APPR: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO.: PART NUMBER: LM 0949025-0004 REV: A										

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0949025-0004		REV A		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0021	0008.000	EA		0996544-0005	RESISTOR, VARIABLE 20K, 10% .5W MINIATURE	032997-3299W-1-203				
0021A					R2 R4 R24 R26 R46 R48 R68					
0021B					R70					
0022	0004.000	EA		0972946-0123	RES FIX 270K OHM 5% .25 W CARBON FILM	ROH	- R-25			
0022A					R1 R23 R45 R67					
0023	0004.000	EA		0972946-0129	RES FIX 470K OHM 5% .25 W CARBON FILM	ROH	- R-25			
0023A					R3 R25 R47 R69					
0024	0004.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	ROH	- R-25			
0024A					R10 R32 R54 R76					
0025	0004.000	EA		0972946-0084	RES FIX 6.2K OHM 5% .25 W CARBON FILM	ROH	- R-25			
0025A					R16 R38 R60 R82					
0026	0004.000	EA		0972946-0055	RES FIX 390 OHM 5% .25 W CARBON FILM	ROH	- R-25			
0026A					R18 R40 R62 R84					
0027	0001.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	- R-25			
0027A					R89					
0028	0008.000	EA		0972946-0010	RESISTOR, 5.1 OHMS .25W 5% FX INSULATED					
0028A					R11 R12 R33 R34 R55 R56 R77					
0028B					R78					
0029	0008.000	EA		0972946-0017	RES FIX 10.0 OHM 5% .25 W CARBON FILM	ROH	- R-25			
0029A					R19 R20 R41 R42 R63 R64 R85					
DRAFTSMAN: DATE: CED: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: 990 D/A CONVERTER MODULE, 4 CHANNEL APPR: ENG: DATE: APPR: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO.: PART NUMBER: LM 0949025-0004 REV: A										

TEXAS INSTRUMENTS INCORPORATED		DATE 04/23/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER	REV	
								LM0949025-0004	A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG NO	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0029B					R84					
0030	00008.000	EA		0994545-0001	RESISTOR, FIXED 20,000 OHMS, 0.1% .1 WATT	007716-MAR9-T113-20K				
0030A					R6 R9 R20 R31 R50 R53 R72					
0030B					R75					
0031	00004.000	EA		0539374-0347	RESISTOR, 402 OHM .25W 1% FIXED FILM	024546-NC60-50 PPM/C				
0031A					R14 R36 R58 R80					
0032	00004.000	EA		0940027-0001	RESISTORS, MATCHED GROUP SET, 5000/500					
0032A					R13-R17 R35-R39 R57-61					
0032B					R79-R83					
0032C					SEE NOTE 1					
0033	00004.000	EA		0940028-0001	RESISTORS, MATCHED GROUP SET, 500/50 OHM					
0033A					R22-R21 R44-P43 R66-R65					
0033B					R88-R87					
0033C					SEE NOTE 2					
0034	00008.000	EA		0232583-0025	T0-5 MOUNTING PAD, 4-LEADS, TEFLON	-SEE TI DWG				
0035	REF	EA		0949027-9901	LOGIC DIAGRAM, 990 D/A CONVERTER MODULE					
0036	REF	EA		0949028-9901	TEST PROCEDURE, 990 D/A CONVERTER MODULE					
0037	00020.000	EA		0419058-0002	CAPACITOR, .01 UF 20% 50V FX CER DIELEC	071590-UK50-103				
0037A					C3 C4 C5 C6 C7 C8 C9 C10					
0037B					C11 C16 C17 C25 C26 C27					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 D/A CONVERTER MODULE, 4 CHANNEL		
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	LM0949025-0004 A		

TEXAS INSTRUMENTS INCORPORATED		DATE 04/23/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER	REV	
								LM0949025-0004	A	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG NO	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0037C					C36 C37 C38 C46 C47 C48					
0038	00006.000	EA		0996549-0003	CAPACITOR, TANTALUM 10V 15UF -20%	031433-T330A156M010A5				
0038A					C1 C2 C24 C30 C35 C45					
0039	00016.000	EA		0996549-0002	CAPACITOR, 6.8 UF 20% 20V TANTALUM	031433-T330A685M020A5				
0039A					C12 C13 C14 C15 C20 C21 C22					
0039B					C23 C31 C32 C33 C34 C41 C42					
0039C					C43 C44					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	990 D/A CONVERTER MODULE, 4 CHANNEL		
APPROV		DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	LM0949025-0004 A		

NOTES UNLESS OTHERWISE SPECIFIED

1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:

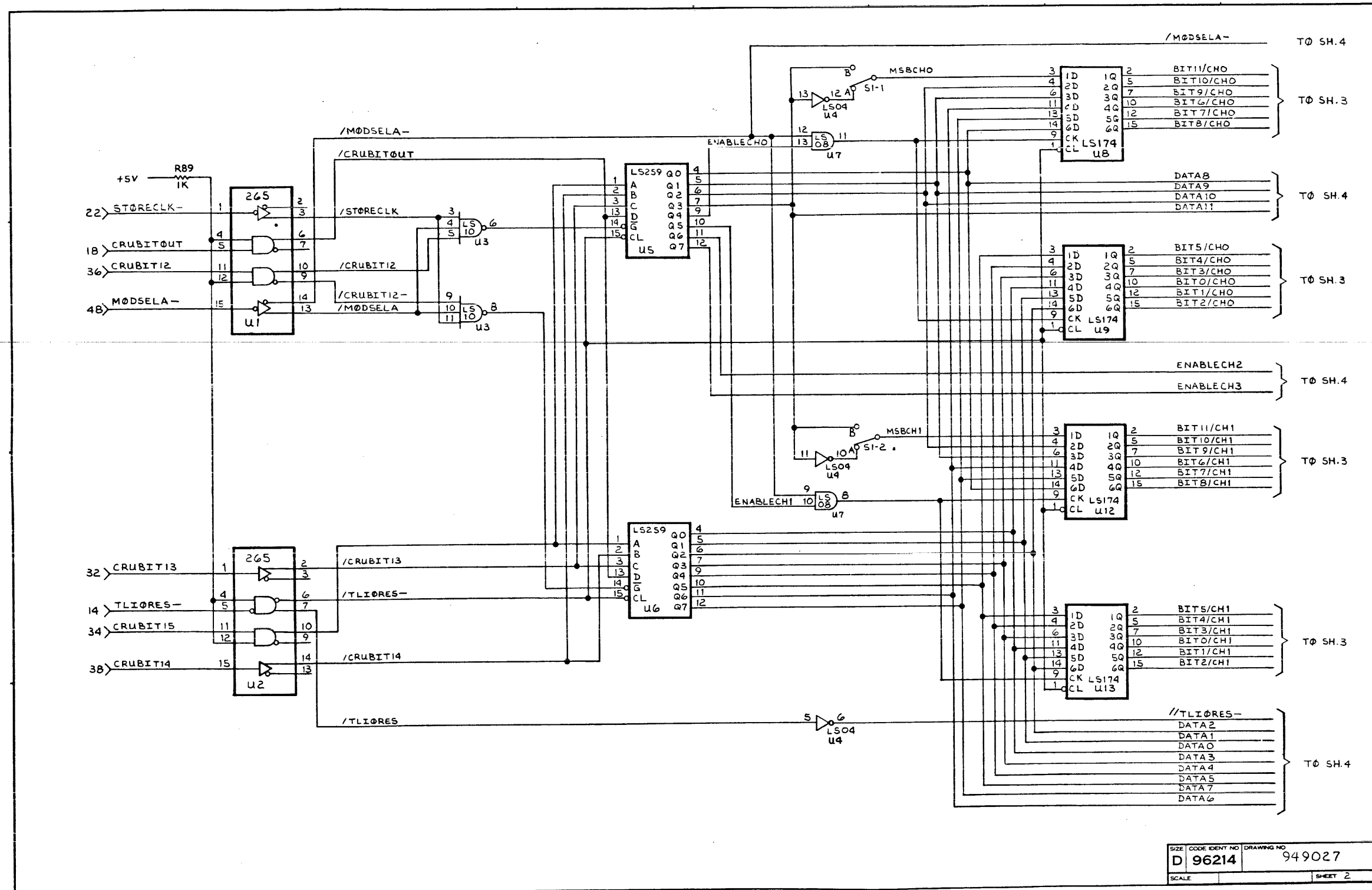


- LS08 AND LS04 = DEVICE TYPE
 11, 12 AND 13 = PIN NUMBERS
 U7 AND U4 = REFERENCE DESIGNATOR
5. F.A. = FACTORY ADJUST COMPONENT

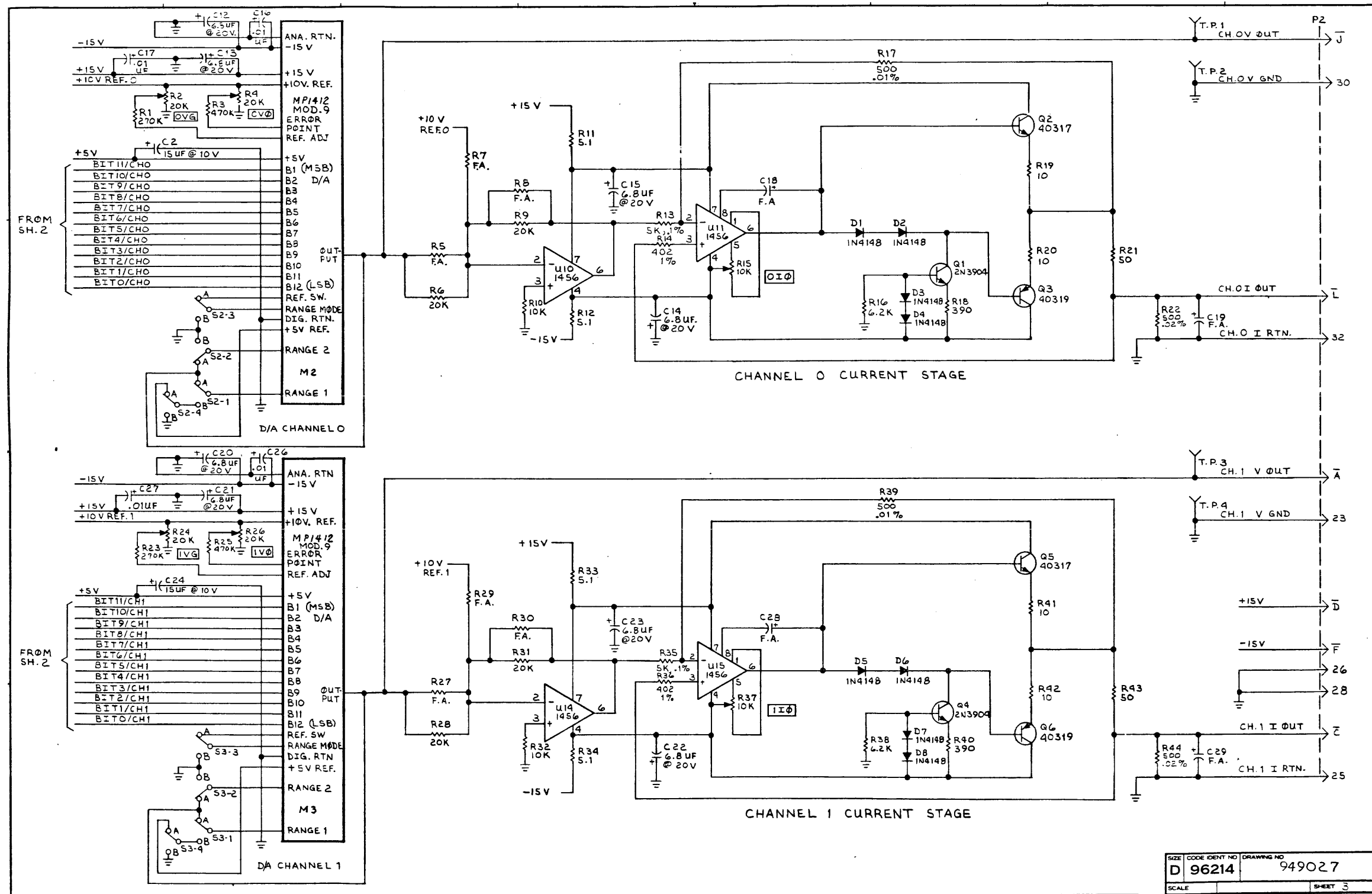
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	CN4492L9(D) CLEAN	6-12-77	R...

REV STATUS OF SHEETS	REV	A	A	A
	SHEET	1	2	3 4 5

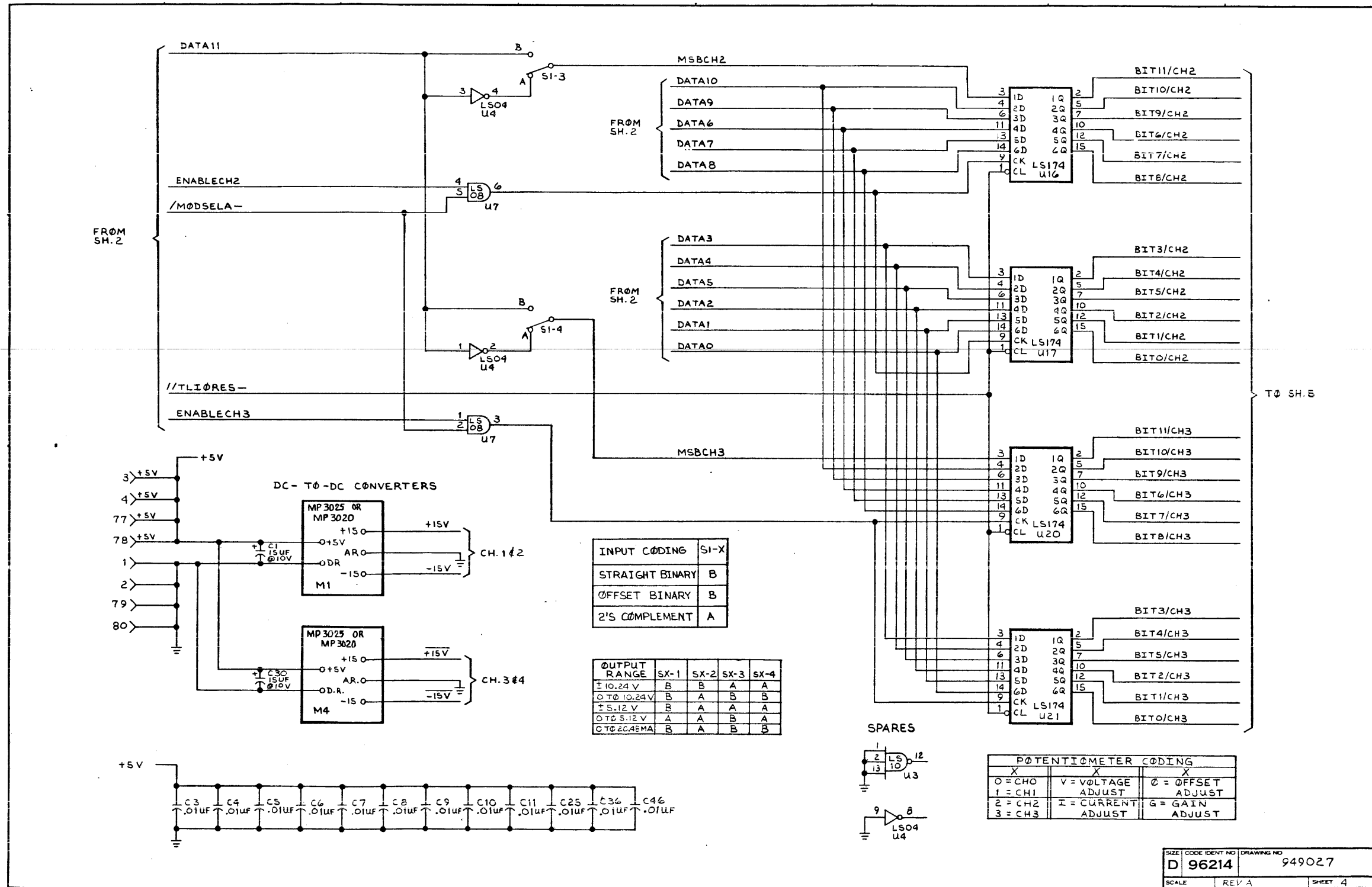
QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST					
UNLESS OTHERWISE SPECIFIED			UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIB DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			DIMENSIONS ARE IN INCHES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02		
HOLE TOLERANCE .013 +.004 THRU .125 - .001 .125 +.004 THRU .250 - .001 .250 +.008 THRU .750 - .010 .750 +.001 THRU 2.000 - .001			MATERIAL: DWN: [Signature] 2-1-77 CHK: C. Keeler 2/23/77 ENGR: Mike [Signature] 5/14/77 DFL: [Signature] 12/2/77 APVD: Mike [Signature] 5/2/77 CONTR NO: DESIGN ACTIVITY RELEASE:		
APPLICATION:			TEXAS INSTRUMENTS THE UTILITY GROUP Dallas, Texas LOGIC DIAGRAM, DIGITAL TO ANALOG CONVERTER		
SIZE: D CODE IDENT NO: 96214 DRAWING NO: 949027			SCALE: SHEET 1 OF 5		



SIZE	CODE IDENT NO	DRAWING NO
D	96214	949027
SCALE	SHEET 2	



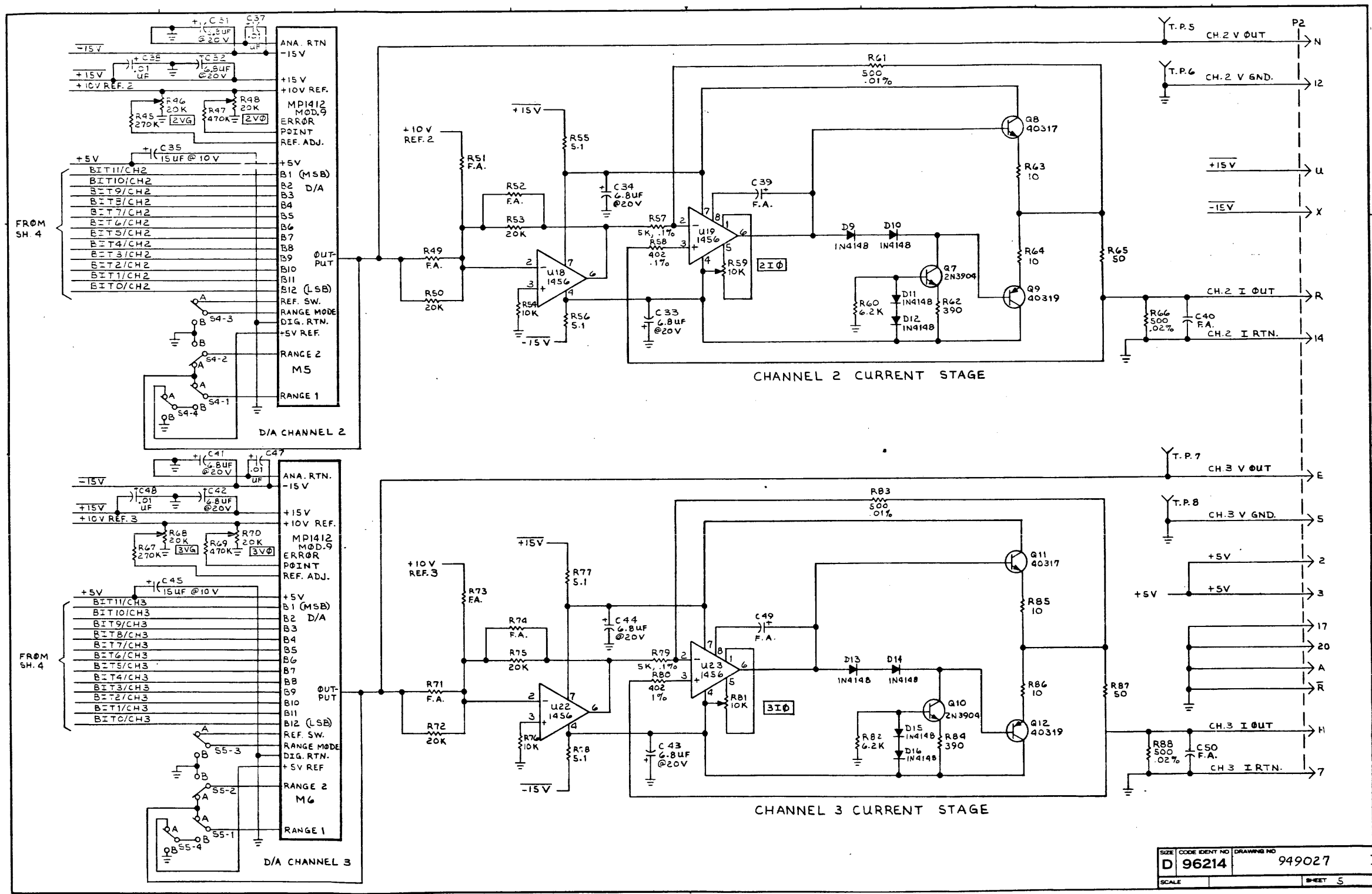
SIZE	CODE IDENT NO	DRAWING NO
D	96214	949027
SCALE		SHEET 3



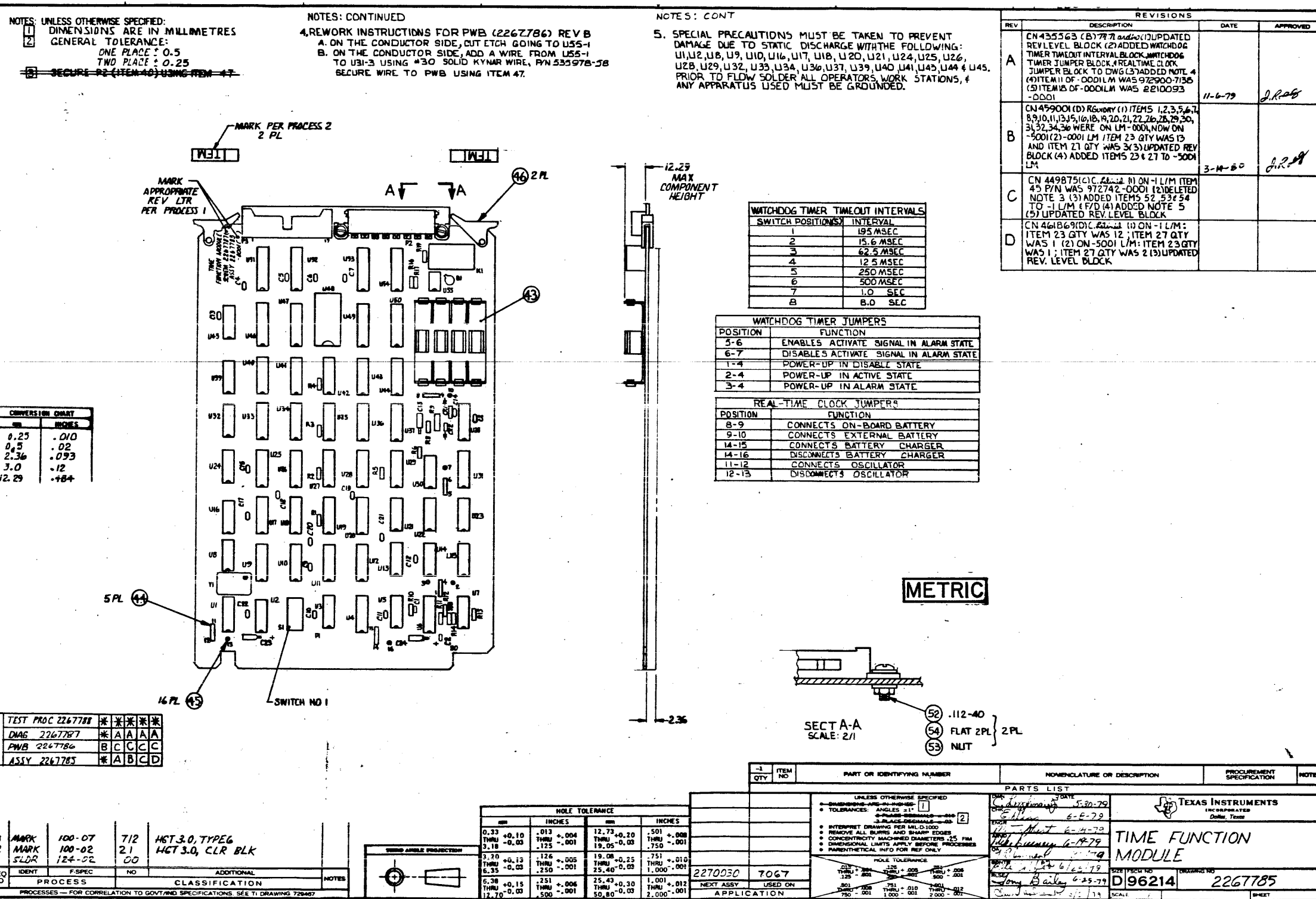
INPUT CODING	SI-X
STRAIGHT BINARY	B
OFFSET BINARY	B
2'S COMPLEMENT	A

OUTPUT RANGE	SX-1	SX-2	SX-3	SX-4
± 10.24 V	B	B	A	A
0 TO 10.24 V	B	A	B	B
± 5.12 V	B	A	A	A
0 TO 5.12 V	A	A	B	A
0 TO 20.48 MA	B	A	B	B

POTENTIOMETER CODING		
X	X	X
0 = CHO	V = VOLTAGE	Ø = OFFSET
1 = CH1	ADJUST	ADJUST
2 = CH2	I = CURRENT	G = GAIN
3 = CH3	ADJUST	ADJUST



SIZE	CODE IDENT NO	DRAWING NO
D	96214	949027
SCALE		SHEET 5



TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2267785-0001		REV D		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0004	00001.000	EA		0972900-7404	NETMURK SN74LS04N					
0004A					U7					
0012	00001.000	EA		0222222-7150	NETMURK SN74150N					
0012A					U48					
0014	00004.000	EA		0996089-0004	IC, SN74LS244N LINE DRIVER	-SN74LS244N				
0014A					U51 U52 U53 U54					
0017	00004.000	EA		0996420-0002	IC, SN74LS374N EDGE-TRIGGERED FLIP-FLUPS	001295-SN74LS374N				
0017A					U46 U47 U49 U50					
0023	00001.000	EA		2210362-0001	IC, COUNTER	004713-SEE TI DWG				
0023A					U1					
0024	00001.000	EA		0972929-0370	CAP FIX CERAMIC 3300 PF 10 X 200 V	QPL -M39014/01-1370				
0024A					C1					
0025	00001.000	EA		0972929-0403	CAP .0022 UF 108 100V					
0025A					C2					
0027	00002.000	EA		0972924-0010	CAP FIX TANI SOLID 22 MFD 10 X 15 VOL	QPL -M39003/1-2271				
0027A					C23 C24					
0033	00001.000	EA		0972946-0121	RES FIX 220K OHM 5 X .25 W CARBUN FILM	RUH - R-25				
0033A					R11					
0035	00001.000	EA		0001126-0014	SEMICONDUCTOR DEVICE, DIODE, ZENER, 5.9 V	004713-SEE TI DWG				
0035A					C81					
DRAFTSMAN		DATE	CHECKED	DATE	DESIGN ENGINEER	DATE	TITLE			
			J. P. RAY	3-25-80			TIME FUNCTION MODULE			
APPROVED		DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV
							7067	LM2267785-0001		D

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM2267785-0001		REV D		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0037	00001.000	EA		0972940-0002	TRANSISTOR, 2N2222A NPN GEN PURP SW TU-18	TI - 2N2222A				
0037A					Q1					
0038	00001.000	EA		2210390-0001	RELAY, GENERAL PURPOSE	079405-SEE TI DWG				
0038A					K1					
0039	00001.000	EA		0972706-0004	HEADER, CONNECTOR 1 AMP RIGHT ANGLE	055101-3494-1002				
0039A					P3					
0040	00001.000	EA		0996459-0010	HEADER, PL CARD, RT ANGLE, .250 LTRS, 8 CKTS	000779-640584-1				
0040A					P2					
0041	00001.000	EA		2210449-0001	OSCILLATOR CLOCK, CRYSTAL	001537-SEE TI DWG				
0041A					Y1					
0042	00001.000	EA		0772923-0005	SWITCH DUAL IN LINE, 8 POSITION	AMP -435166-5				
0042A					S1					
0043	00001.000	EA		2210421-0001	CLIP, BATTERY HOLDER	091833-SEE TI DWG				
0044	00005.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH					
0045	00016.000	EA		0996464-0001	CONNECTOR, SOCKET PCB	022526-75060-007				
0046	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PHB					
0047	AR	EA		0996069-0003	ADH, SOLID THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302				
0048	REF	EA		2267787-9901	LOGIC DIAGRAM, TIME FUNCTION MODULE					
0049	REF	EA		2267788-9901	UNIT TEST PROC, TIME FUNCTION MODULE					
0050	REF	EA		2267789-9901	SPECIFICATION, TIME FUNCTION MODULE					
DRAFTSMAN		DATE	CHECKED	DATE	DESIGN ENGINEER	DATE	TITLE			
							TIME FUNCTION MODULE			
APPROVED		DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV
								LM2267785-0001		D

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM2267785-0001		REV D		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0051	00001.000	EA		2267785-5001	AUTO-INSERTION TAPE FOR 2267785-0001					
0052	00002.000	EA		0972988-0015	SCREW 4-40 X .375 PAN HEAD CRES					
0053	00002.000	EA		0411115-0044	NUT, 4-40 HEXAGUM CRES STEEL	MS -35649-244				
0054	00004.000	EA		0416622-0011	WASHER #4 FLAT	QPL - AN960C4L				
DRAFTSMAN		DATE	CHECKED	DATE	DESIGN ENGINEER	DATE	TITLE			
							TIME FUNCTION MODULE			
APPROVED		DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV
								LM2267785-0001		D

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2267785-5001		REV D		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		2267786-0001	PHB, TIME FUNCTION MODULE					
0002	00001.000	EA		0972900-7402	NETMURK, SN74LS02N					
0002A					U23					
0003	00001.000	EA		0222222-7403	NETMURK SN7403N					
0003A					U30					
0005	00001.000	EA		0972749-0001	NETMURK, SN74LS08N					
0005A					U22					
0006	00003.000	EA		0972813-0001	NETMURK-SN74LS21N					
0006A					U3 U5 U13					
0007	00001.000	EA		0972900-7432	NETMURK SN74LS32N	TI -SN74LS32N				
0007A					U15					
0008	00001.000	EA		0972900-7474	NETMURK SN74LS74N					
0008A					U14					
0009	00001.000	EA		0972900-7112	NETMURK SN74LS112M	TI -SN74LS112M				
0009A					U31					
0010	00001.000	EA		0972793-0001	IC, MONOSTABLE MV SN74LS123N					
0010A					U6					
0011	00001.000	EA		0219402-7138	NETMURK SN74LS138N					
0011A					U11					
0013	00001.000	EA		0972669-0003	IC, SYNCHRONOUS 4 BIT SN74LS161M	TI -SN74LS161M				
DRAFTSMAN		DATE	CHECKED	DATE	DESIGN ENGINEER	DATE	TITLE			
							AUTO-INSERTION TAPE FOR 2267785-0001			
APPROVED		DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV
								LM2267785-5001		D

TEXAS INSTRUMENTS INCORPORATED		DATE 03/21/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2267785-5001		REV D	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0013A					U38						
0015	00006.000	EA		0996023-0001	IC, LUM RUMER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N				
0015A					U19 U27 U35 U42						
0016	00002.000	EA		0972159-7265	NETWORK, SN74265N						
0016A					U4 U12						
0018	00001.000	EA		0996829-0002	IC, 2.4V TEST, 0.7V WAVEFORMS	SEE TI- DRAWING					
0018A					U55						
0019	00002.000	EA		0972999-4011	X NETWORK 4011	-SEE TI DRAWING					
0019A					U21 U24						
0020	00006.000	EA		0972999-4050	X NETWORK, 4050	-SEE TI DRAWING					
0020A					U25 U29 U33 U37 U40 U44						
0021	00002.000	EA		2210365-0001	IC, 8-INPUT NUM GATE	004713-SEE TI DWG					
0021A					U2 U16						
0022	00003.000	EA		2210364-0001	IC, DUAL, 4-INPUT, AND GATE	004713-SEE TI DWG					
0022A					U32 U39 U45						
0023	00012.000	EA		2210362-0001	IC, COUNTER	004713-SEE TI DWG					
0023A					U8 U9 U10 U17 U18 U20 U26						
0023B					U28 U34 U36 U41 U43						
0026	00018.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80V, -20%						
0026A					64 65 66 67 68 69 70 71						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTION TAPE FOR 2267785-0001											
APP'D. ENG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2267785-5001 D											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/21/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 2267785-5001		REV D	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0026B					C12 C13 C14 C16 C17 C18 C19						
0026C					C20 C21 C22						
0027	00001.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 % 15 VOLT	QPL	-M39003/1-2271				
0027A					C15						
0028	00001.000	EA		0972946-0035	RES FIX 56.0 OHM 5 % .25 W CARBON FILM	RUH	- R-25				
0028A					R8						
0029	00001.000	EA		0972946-0079	RES FIX 3.9K OHM 5 % .25 W CARBON FILM	RUH	- R-25				
0029A					R16						
0030	00001.000	EA		0972947-0057	RES FIX 470 OHM 5% .5 W CARBON FILM	RUH	- R-50				
0030A					R9						
0031	00007.000	EA		0972946-0083	RES FIX 5.6K OHM 5 % .25 W CARBON FILM	RUH	- R-25				
0031A					R5 R6 R12 R13 R14 R15						
0031B					R17						
0032	00005.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	RUH	- R-25				
0032A					R1 R2 R3 R4 R10						
0034	00001.000	EA		0972946-0017	RES FIX 10.0 OHM 5 % .25 W CARBON FILM	RUH	- R-25				
0034A					R19						
0036	00001.000	EA		0972932-0001	DIODE IN9148	SEE TI- DRAWING					
0036A					CM2						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTION TAPE FOR 2267785-0001											
APP'D. ENG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2267785-5001 D											

NOTES: UNLESS OTHERWISE SPECIFIED:

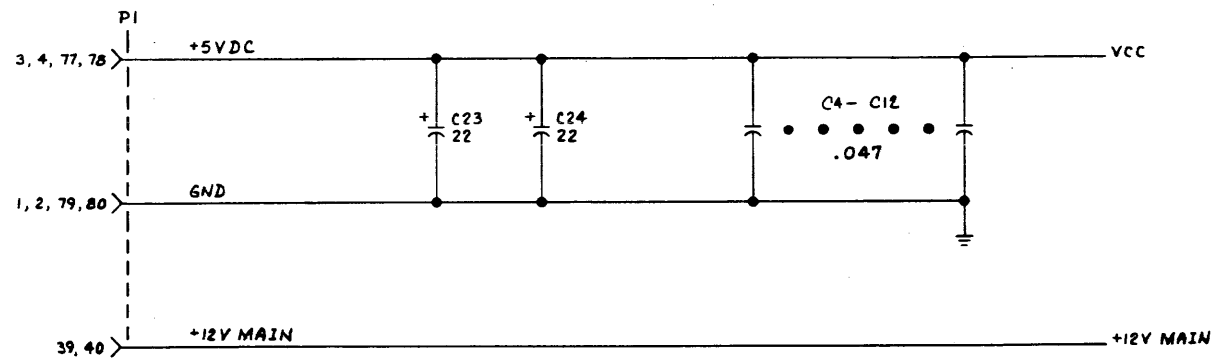
1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. VCC IS APPLIED TO PIN 8 OF ALL 8-PIN IC'S, PIN 14 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S, PIN 20 OF ALL 20-PIN IC'S, ETC.
3. GROUND IS APPLIED TO PIN 4 OF ALL 8-PIN IC'S, PIN 7 OF ALL 14-PIN IC'S, PIN 8 OF ALL 16-PIN IC'S, PIN 10 OF ALL 20-PIN IC'S, ETC.
4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



LS00 AND LS04 = DEVICE TYPE
 1, 2 AND 3 = PIN NUMBERS
 U2 AND U14 = REFERENCE DESIGNATOR

5. RESISTANCE VALUES ARE IN OHMS.
6. RESISTORS ARE 1/4, 5%.
7. CAPACITANCE VALUES ARE IN MICROFARADS.
8. ALL IC'S WITH * ARE POWERED BY VCC1

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN435559 (2) 17. T. J. J. J.	10-25-79	E. W. J.



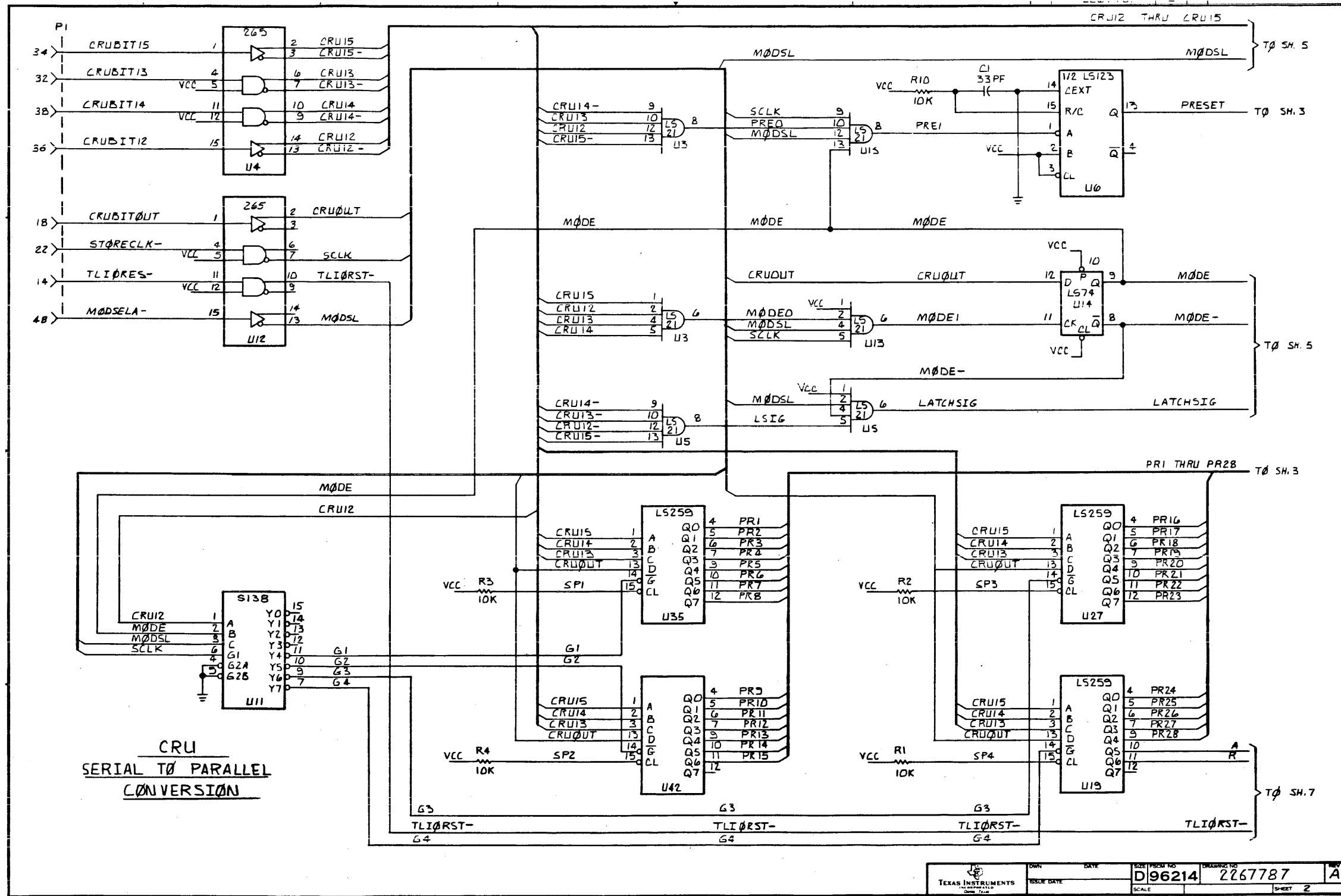
REV. STATUS OF SHEETS	REV. A	A	A	*	A	*	A
SH.	1	2	3	4	5	6	7

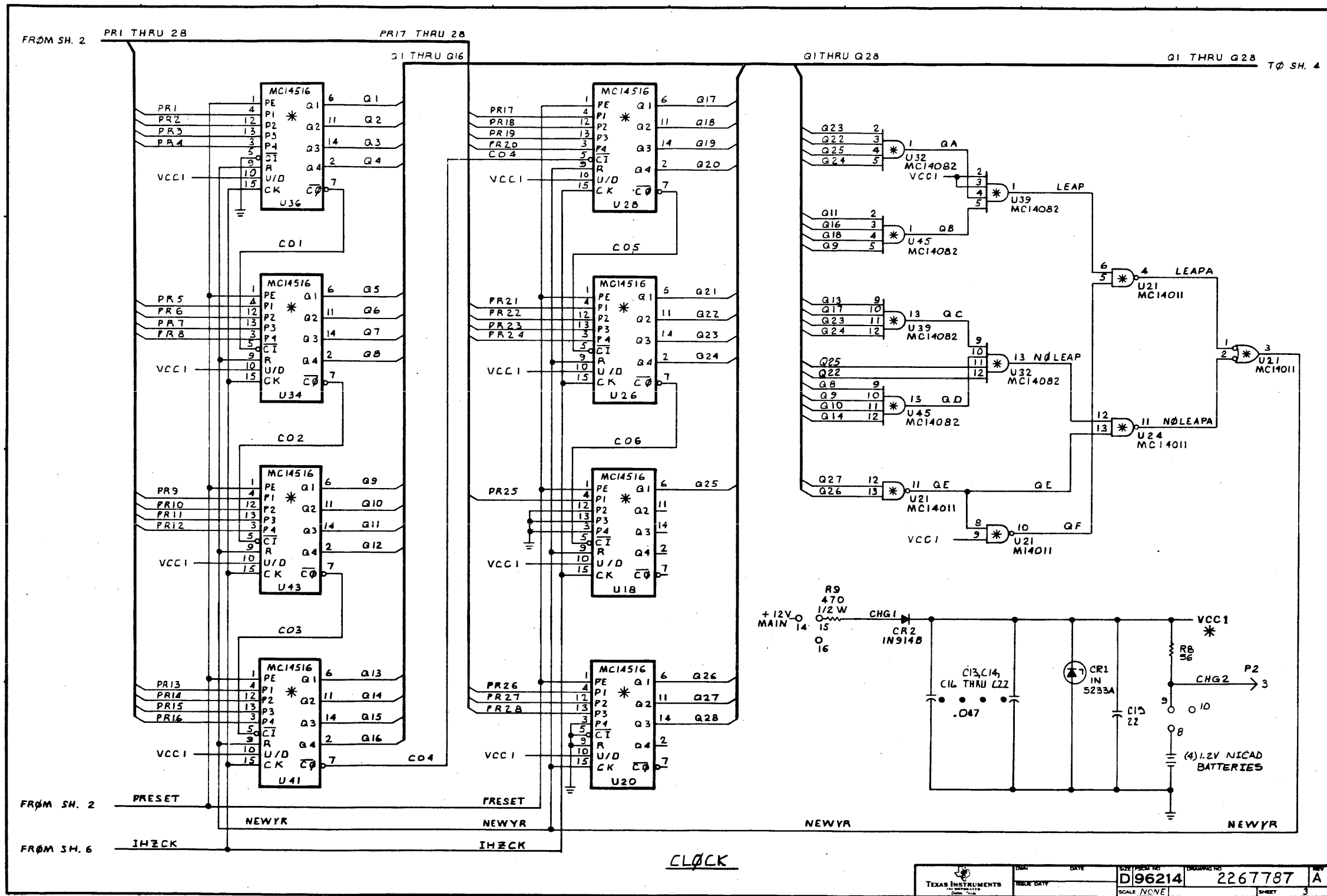
ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION	NOTES
2267 785	7067	LOGIC DIAGRAM, TIME FUNCTION MODULE		

UNLESS OTHERWISE SPECIFIED:	DATE
• DIMENSIONS ARE IN INCHES	6-11-79
• TOLERANCES: ANGLES ±1°	6-12-79
• 3 PLACE DECIMALS ±.010	6-13-79
• 2 PLACE DECIMALS ±.02	6-13-79
• INTERPRET DRAWING PER MIL-D-1000	6-13-79
• REMOVE ALL BURRS AND SHARP EDGES	6-13-79
• CONCENTRICITY MACHINED DIAMETERS .015 P.M.	6-13-79
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	6-13-79
• PARENTHESES INFO FOR REF ONLY	6-13-79

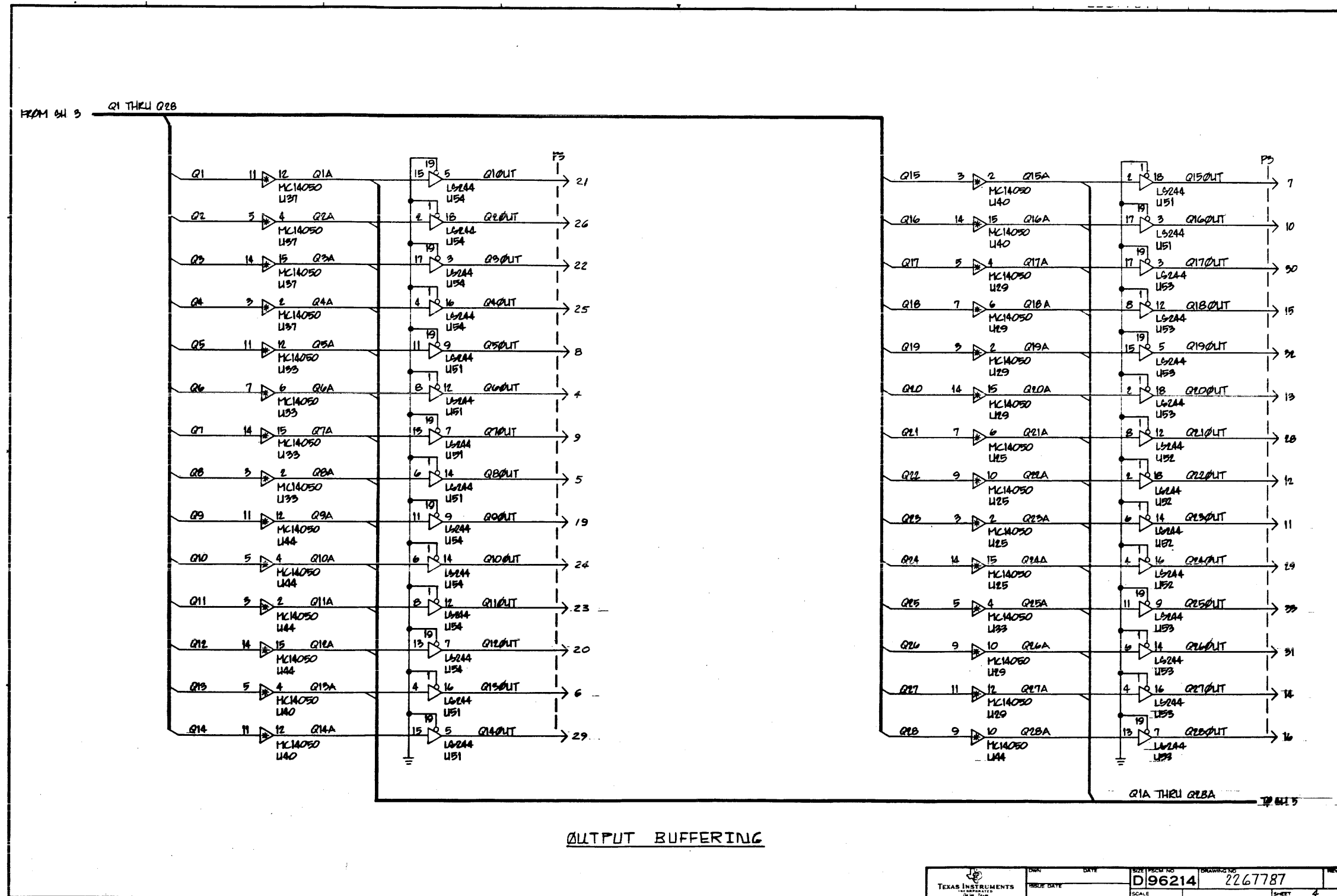
TEXAS INSTRUMENTS	DRAWING NO. D96214
LOGIC DIAGRAM, TIME FUNCTION MODULE	2 267 787

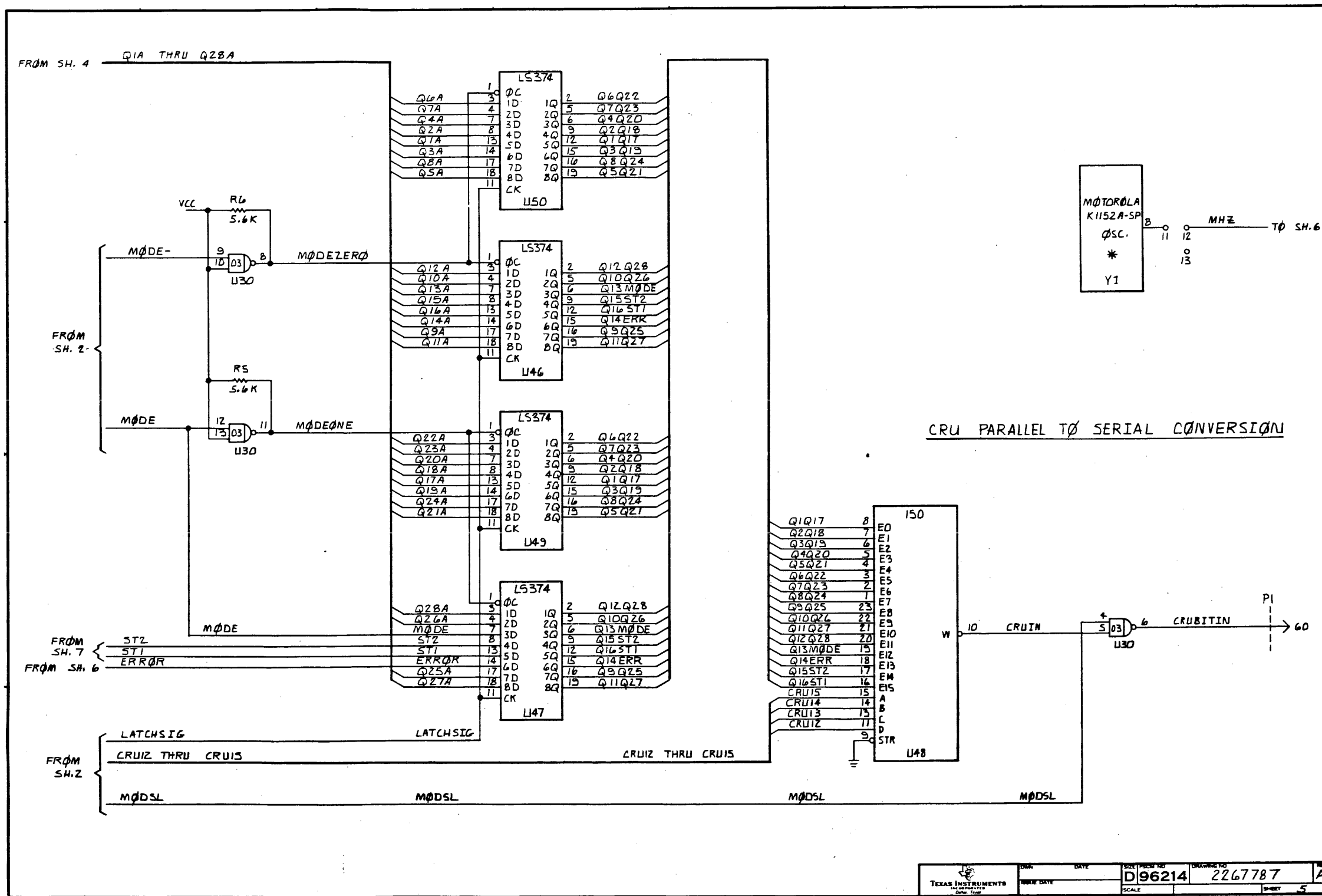
SEQ NO.	IDENT	F-SPEC	NO.	ADDITIONAL CLASSIFICATION	NOTES



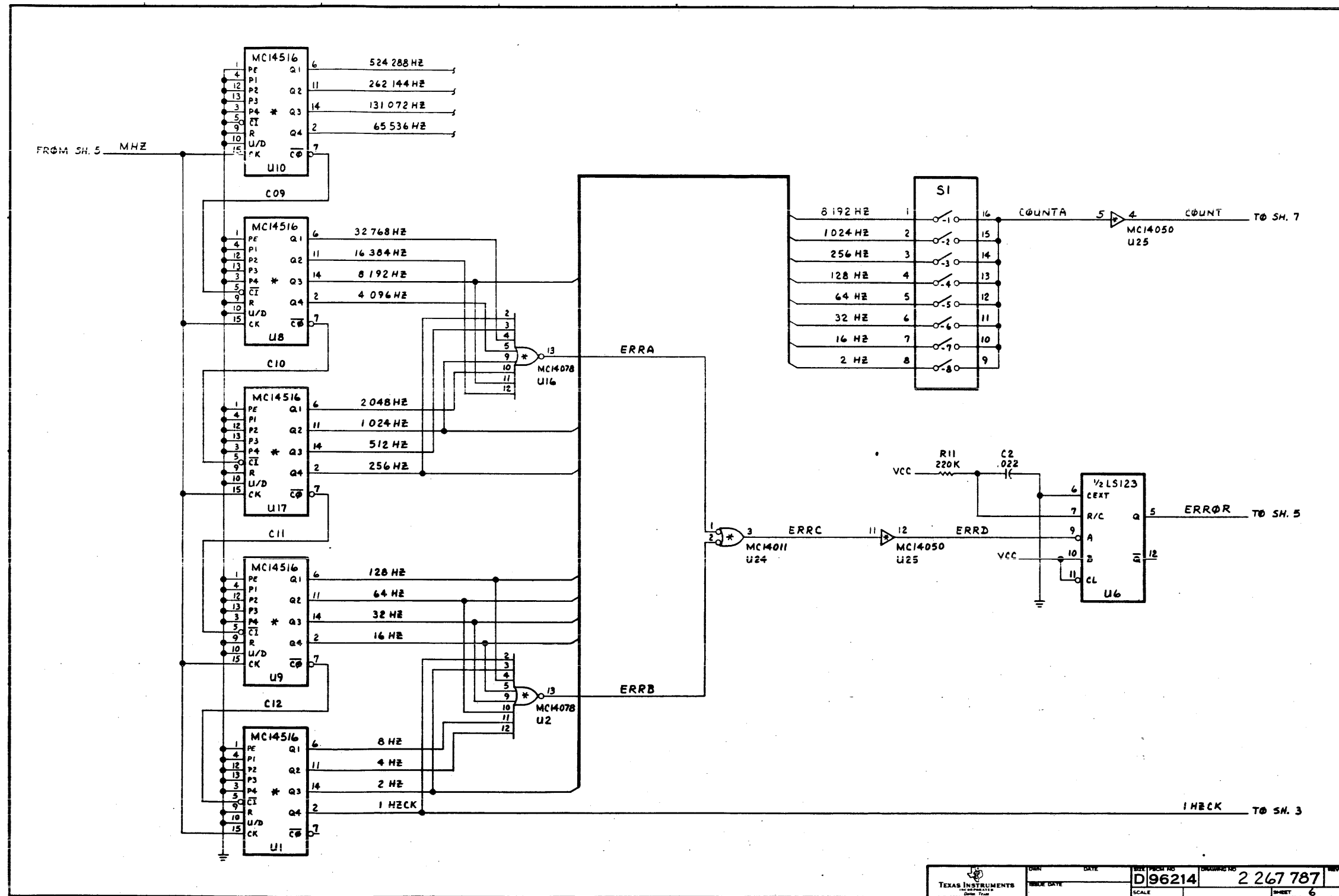


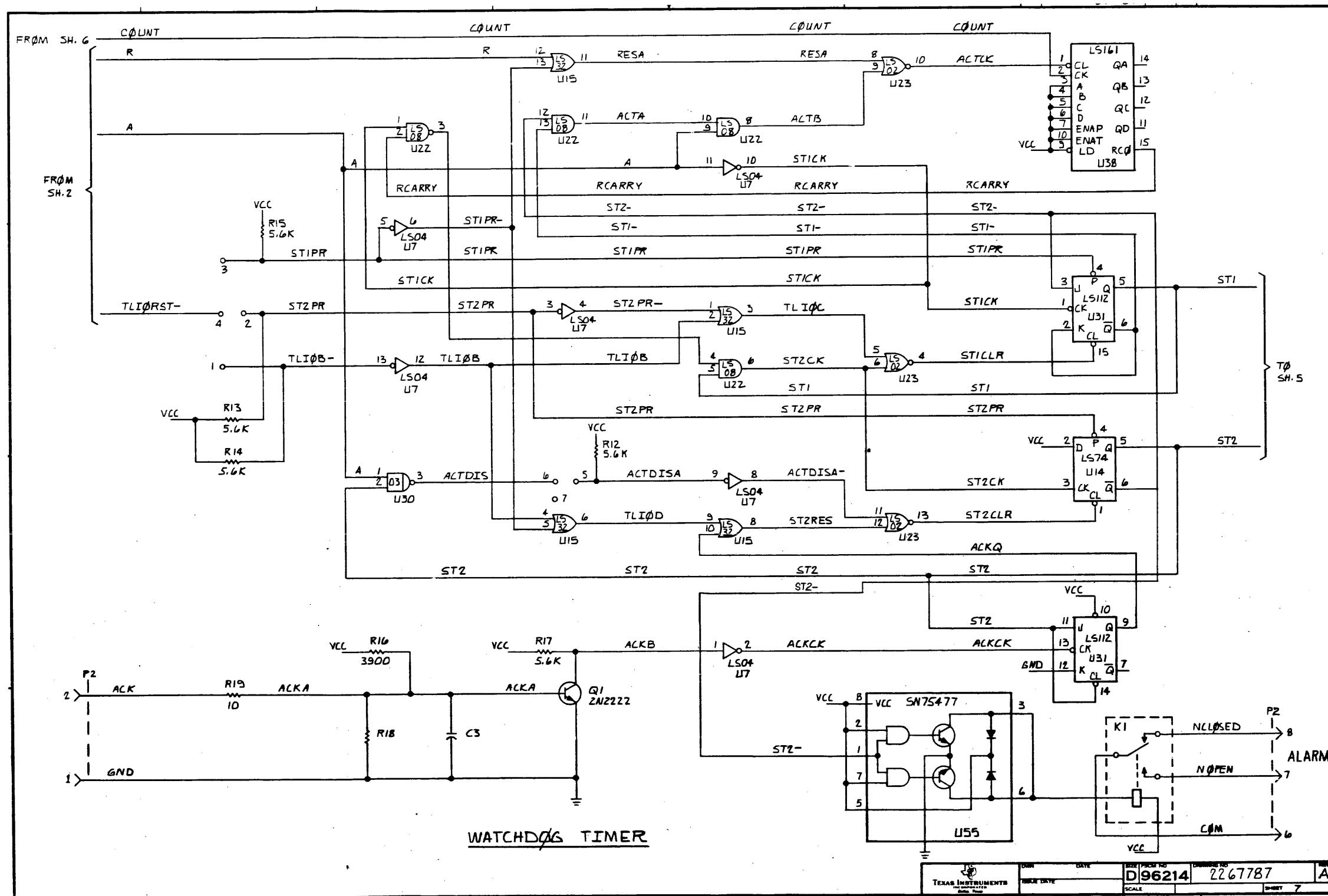
TEXAS INSTRUMENTS	DATE	DATE	SIZE / INCHES	NO. OF SHEETS	REV
			D96214	2267787	A
			SCALE / NONE	SHEET	3

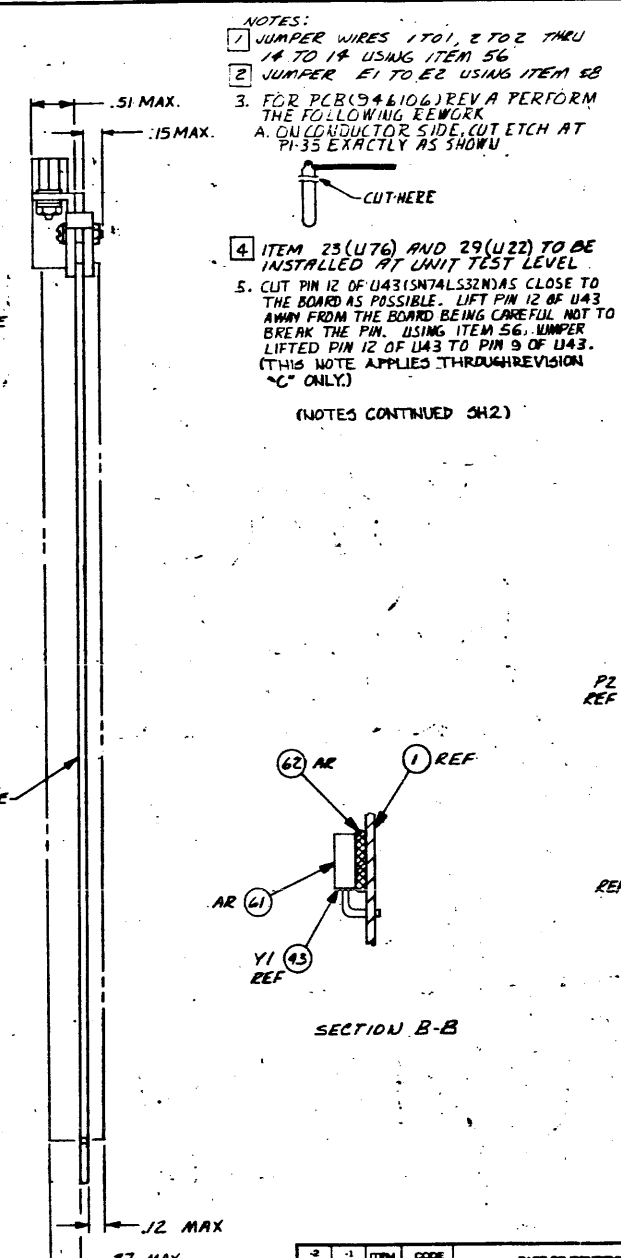
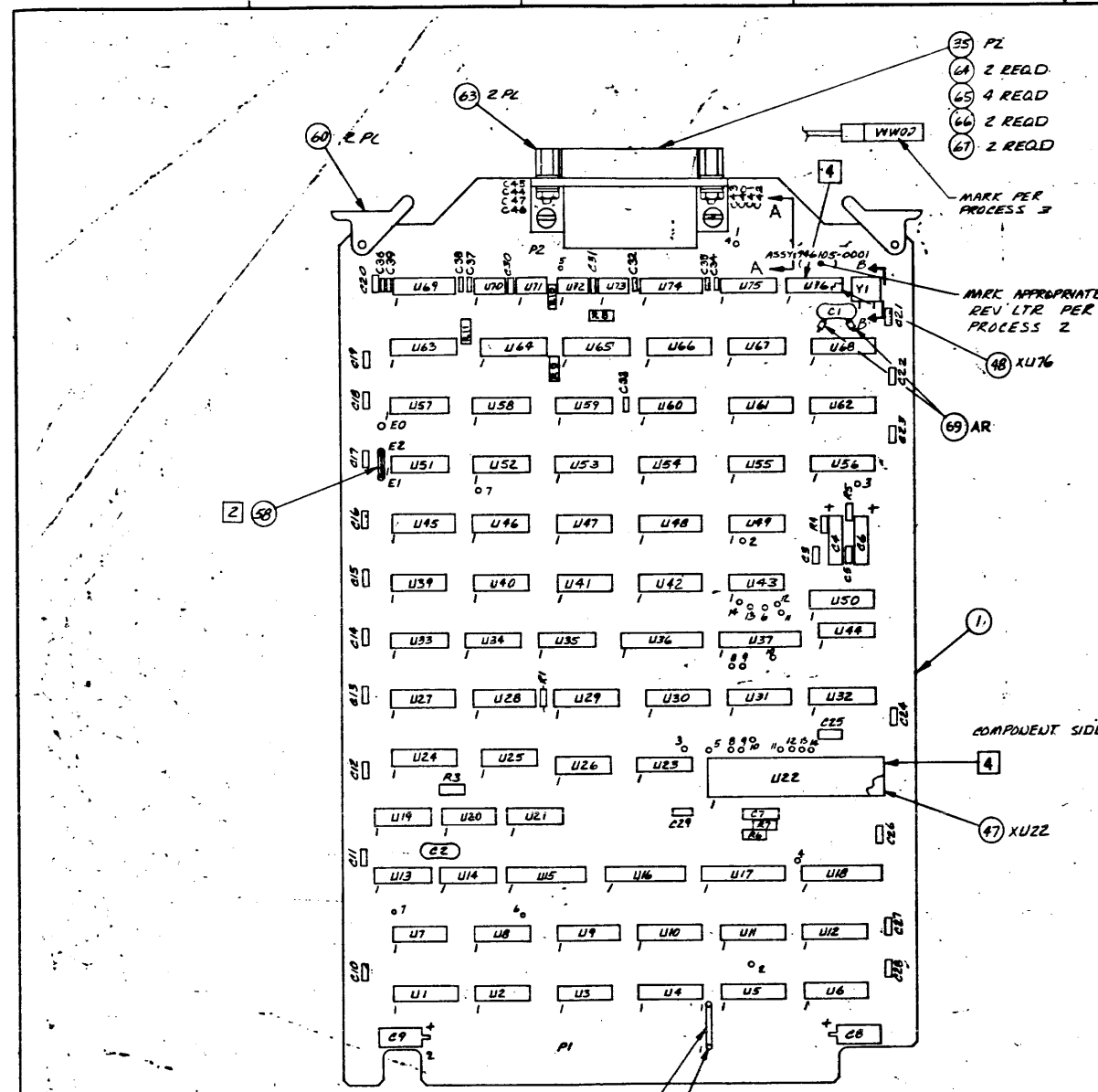




	DATE	SIZE	FORM NO.	ORGANIZATION	D96214	2267787	A
	DATE	SCALE	SHEET	5			







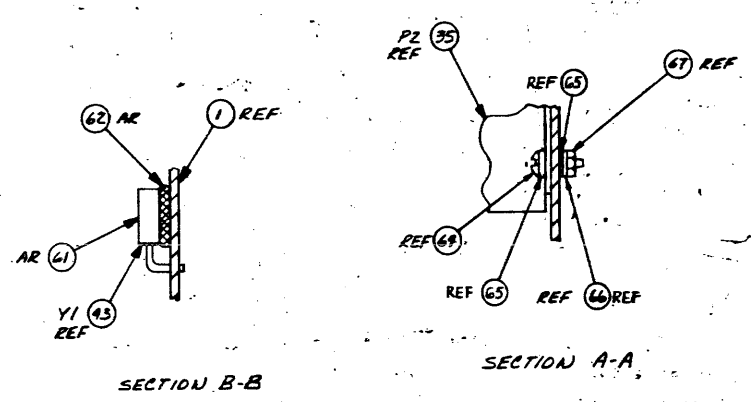
NOTES:

- JUMPER WIRES 1701, 2702 THRU 14 TO 14 USING ITEM 56
- JUMPER E1 TO E2 USING ITEM 58
- FOR PCB(946106) REV A PERFORM THE FOLLOWING REWORK
A. ON CONDUCTOR SIDE, CUT ETCH AT P1-35 EXACTLY AS SHOWN
- ITEM 23 (U76) AND 29 (U22) TO BE INSTALLED AT UNIT TEST LEVEL
- CUT PIN 12 OF U43 (SNTALS32N) AS CLOSE TO THE BOARD AS POSSIBLE. LIFT PIN 12 OF U43 AWAY FROM THE BOARD BEING CAREFUL NOT TO BREAK THE PIN. USING ITEM 56, JUMPER LIFTED PIN 12 OF U43 TO PIN 9 OF U43. (THIS NOTE APPLIES THROUGH REVISION "C" ONLY)

(NOTES CONTINUED SH. 2)

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN417301(E) 2. VALUE (1) - 1 LM, ITEM 50 WAS 972759-0021, 25Y CAP (2) 1M-1, ITEM 40 WAS 972753-0033, 25Y CAP (3) UPDATED REV LEVEL BLOCK	10-4-76	A.R.P.
B		CN422523(B) A. (1) ADDED NOTE 3 (2) REVIS E1 E2 REV LEVEL BLOCK	10-4-76	A.R.P.
C		CN416511 (C) (1) CHANGED SECTION A-A DETAIL (2) CHANGED COMPONENT AND SIDE VIEW OF P2 (3) ADDED LEADS AND INSULATION TO C1 (4) CHANGED COMPONENT HEIGHT FOR INSTALLATION OF P2 (5) ADDED NOTE 4 (6) UPDATED REV LEVEL BLOCK	11-15-76	A.R.P.
D		CN416511 (D) (1) UPDATED REV LEVEL CONTROL BLOCK	11-8-76	A.R.P.
E		CN421253 (C) R. (1) ITEM 65 PIN ON LM WAS 41027-804, ITEM 67 PIN WAS 41115-0044, (2) UPDATED REV LEVEL CONTROL BLOCK	11-15-76	A.R.P.
F		CN417307 (E) (1) CHANGED ITEM 36 WAS 972759-13, (2) UPDATED REV LEVEL BLOCK	3/15/77	A.R.P.
G		CN419421 (B) R.G.L. (1) IN LM PIN OF ITEM 2 WAS 972900-7401 NETWORK SNTALS32N (2) UPDATED REV LEVEL BLOCK	4-6-77	A.R.P.
H		CN41147 (A) R.G.L. (1) ADDED NOTE 5 (2) UPDATED REV LEVEL BLOCK	4-6-77	A.R.P.

(REVISIONS CONTINUED SH. 2)



T.P.	LOGIC	PWB	ASSY	REV	STATUS	REV	V	V
1946108-9901	996107-9901	996106-0001	996105-0001	*	*	*	*	*
A	A	A	A	B	B	B	B	B
B	B	B	B	C	C	C	C	C
C	C	C	C	D	D	D	D	D
D	D	D	D	E	E	E	E	E
E	E	E	E	F	F	F	F	F
F	F	F	F	G	G	G	G	G
G	G	G	G	H	H	H	H	H
H	H	H	H	I	I	I	I	I
I	I	I	I	J	J	J	J	J
J	J	J	J	K	K	K	K	K
K	K	K	K	L	L	L	L	L
L	L	L	L	M	M	M	M	M
M	M	M	M	N	N	N	N	N
N	N	N	N	P	P	P	P	P
P	P	P	P	Q	Q	Q	Q	Q
Q	Q	Q	Q	R	R	R	R	R
R	R	R	R	S	S	S	S	S
S	S	S	S	T	T	T	T	T
T	T	T	T	U	U	U	U	U
U	U	U	U	V	V	V	V	V

PROCESSES:
 1. SOLDER PER F-127, METHOD I, AND/OR F-128
 2. MARK PER F-100, METHOD I, CLASS 1, HEIGHT .12, COLOR BLACK
 3. MARK PER F-100, METHOD III, CLASS 12, COLOR BLACK, TYPE 6

QTY	REV	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCURMENT SPECIFICATION
1						

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BLURS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 PIR	DIMENSIONS ARE IN INCHES	TOLERANCES ANGLES 11° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	
HOLE TOLERANCE			
.013 +.004	.125 +.005	.251 +.006	.500 +.008
.125 -.001	.125 -.001	.500 -.001	.500 -.001
.001	.001	.001	.001
THRU .001	THRU .010	THRU .010	THRU .001
.750 -.001	1.000 -.001	2.000 -.001	

DATE	BY	CHKD	ENGR	DRW	DATE	BY	CHKD	ENGR	DRW
6/23/76					7/11/77				
7/23/76					8/13/76				

DESIGN ACTIVITY RELEASE	DATE	BY	CHKD	ENGR	DRW
	7/11/77				

SCALE	1:1
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SIZE	CODE IDENT NO	DRAWING NO
D	96214	946105

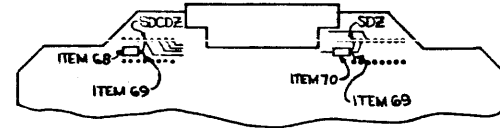
DATE	11/15/76
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SCALE	1:1
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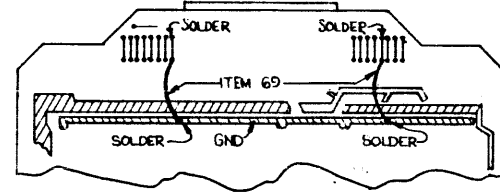
SHEET	1 OF 2
-------	--------

NOTES: (CONTINUED)

6. ADD A .047 μ F CAPACITOR, ITEM 68, BETWEEN 'SDCDZ' AND 'GND' USING ITEM 69 AND ADD A 1000 PF CAPACITOR, ITEM 70, BETWEEN 'SDE' AND 'GND' USING ITEM 69 EXACTLY AS SHOWN. THIS REWORK IS REQUIRED ON REV C AND REV D PWB, INCLUDING REV #A, OR B PWB'S THAT HAVE BEEN REWORKED TO REV C OR D. COMPONENT SIDE



CONDUCTOR SIDE



7. FOR PWB (946106) REV # THROUGH REV D PERFORM THE FOLLOWING REWORK:

- A. CUT PINS BAND 9 OF U41 AS CLOSE TO THE BOARD AS POSSIBLE. LIFT PINS BAND 9 OF U41 AWAY FROM THE BOARD BEING CAREFUL NOT TO BREAK PIN 9
- B. USING ITEM 56 ADD THE FOLLOWING JUMPERS:

FROM: U41 LIFTED PIN 9	TO: U42 PINS 2 AND 3
U41 PIN 14	U42 PIN 1
U42 PIN 4	U42 PIN 1
U42 PIN 5	U42 PIN 16
U42 PIN 6	U42 PIN 14
U42 PIN 7	FEED THROUGH AT U30 PIN 1

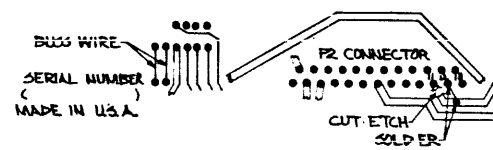
B. REWORK PROCEDURE FOR CHANGING ITEM #47 FROM 539544-9 TO 996610-4, 40 PIN SOCKET:

- a.) REMOVE I.C. FROM SOCKET AT LOCATION U22
- b.) REMOVE OLD SOCKET 539544-9
- c.) REPLACE WITH AND SOLDER IN NEW SOCKET 996610-4
- d.) REINSERT I.C.

9. ITEM 27, 996668-1 IS THE PREFERRED PART FOR U71, U72, U73, U70. IF THIS PART IS NOT AVAILABLE THEN THE FOLLOWING OPTION MAY BE EXERCISED: USE PART NUMBER 0537948-1 FOR U70, U71, U72 AND U73 AND INSTALL PART NUMBER 972929-0397, .001 μ F CAPACITORS IN C40 THROUGH C47

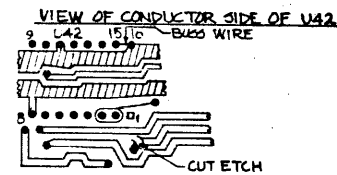
10. REWORK PROCEDURE FOR 946106 REV E ONLY.

- A. INSTALL BUSS WIRE IN EXISTING PLATED THROUGH HOLES AND SOLDER AS SHOWN BELOW.
- B. CUT THE ETCH CLOSE TO THE PAD FOR P2-11 (SEE DWG) THEN SOLDER BUSS WIRE TO P2-12 AND THE ETCH AS SHOWN BELOW.



C. SOLDER IN BUSS WIRE BETWEEN U42-15 AND U42-16 AS SHOWN BELOW.

D. CUT ETCH CLOSE TO PLATED THROUGH HOLE AS SHOWN BELOW.

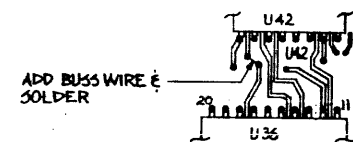


(NOTE 10 CONT, ZONE C-B)

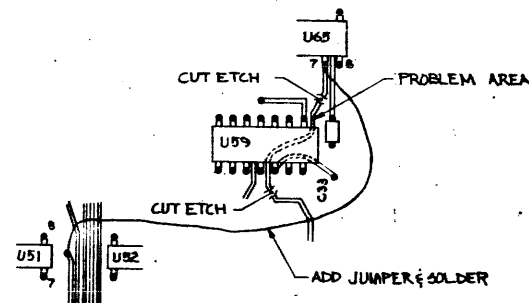
NOTE 10 (CONTINUED)

E. INSTALL BUSS WIRE IN EXISTING PLATED THROUGH HOLES AND SOLDER AS SHOWN BELOW.

VIEW OF COMPONENT SIDE BETWEEN U42 & U36



F. CUT ETCH FROM U65-7 IN TWO (2) PLCS. THEN INSTALL INSULATED JUMPER ITEM 56 BETWEEN U65-7 AND PLATED THROUGH HOLE LOCATED BETWEEN U51 & U52 AS SHOWN BELOW.



11. REWORK PROCEDURE FOR 946106 REV F & G ONLY. PERFORM REWORK NOTE 10E.

REV	DATE	DESCRIPTION	DATE	APPROVED
J	6-10-77	CN420991(E) C. Rev. (new U) UPDATED REV LEVEL BLOCK (2) ADDED SH 2		
K	6-10-77	CN421157 (B) C. Rev. (new U) (1) ADDED NOTE 6 (2) ON LM, ITEM 68 QTY WAS 2.0, ITEM 68 QTY WAS .6 AND ADDED ITEM TO (4) UPDATED REV LEVEL BLOCK (5) REV G, SCN #419421 CLASS OF CHANGE WAS C		
L	6-10-77	CN422846 (B) C. Rev. (new U) ADDED NOTE 7 (2) REV LEVEL BLOCK UPDATED		
M	6-10-77	CN424391 (B) C. Rev. (new U) (1) ON LM ITEM 47 WAS 539544-0009 (2) UPDATES REV LEVEL BLOCK		
N	8-19-77	CN427363 (B) C. Rev. (new U) (1) REV M #47 CHNL. (2) ADDED NOTE 8 (3) UPDATED REV LEVEL BLOCK		
P	8-19-78	CN426344 (E) B. BOHL (1) ON LM ITEM 27 WAS PN 537948-0001 (2) ITEM 28 WAS PN 537947-0001 (3) ITEM 31 WAS PN 539370-0576 (4) WAS MADE 996610-4 BY REV M-B LEVEL (5) ITEM 68 QTY WAS 3.000 (6) ITEM 68 REF. DES. WAS C30, C31, C32 (7) (8) ITEM 70 QTY WAS 1.000 PN WAS 972929-0397 (9) ADDED ITEM 71 (10) CHANGED NOTE 5 (11) UPDATED MECH ASSY. DWG. (12) UPDATED REV LEVEL BLOCK (13) ADDED NOTE 9 (14) ADDED NOTE 10		
R	9-28-78	CN442303 (D) B. BOHL (1) ON LM ITEM 57 PN WAS 972742-1 (2) UPDATED REV LEVEL BLOCK		
T	1-9-79	CN441356 (C) B. BOHL (1) REVISED LM PER EXTENSIVE ENGR CHANGES (2) CREATED 946105-0001 LIA (3) UPDATED REV LVL BLK		
U	5-23-79	CN451947 (D) B. BOHL (1) ON LM-1 ITEM 47 WAS 996610-4 (2) ON LM-1 ITEM 48 WAS 0539544-1 (3) UPDATED REVISION LEVEL BLOCK		
V	10-23-79	CN433796 (C) B. BOHL (1) ADDED REWORK NOTE 11 (2) UPDATED REV LEVEL BLOCK		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946105-0001		REV V#		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0017	00001.000	EA		0972900-7410	NETWORK SN74LS10N					
0017A					U23					
0018	00004.000	EA		0996046-0001	IC, OCTAL BUFFER/DRIVER SN74S240	TI	-SN74S240			
0018A					U15 U16 U17 U18					
0022	00002.000	EA		0996029-0001	IC, SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI	-SN74LS273N			
0022A					U36 U37					
0023	00001.000	EA		0996032-0001	IC, OSCILLATOR, VOLTAGE-CONT SN74LS324N	TI	-SN74LS324N			
0023A					U76					
0029	00001.000	EA		0996047-0001	IC, RECEIVER/TRANSMITTER UC1671B	TI	-UC1671B			
0029A					U22					
0031	00001.000	EA		0539370-0577	RES FIX FILM 100 K OHM 1% .25 WATT	COR	-NAS5			
0031A					R4					
0032	00001.000	EA		0972976-0191	RES FIX COMP 1/4 W 22 MEGOHM 5%	QPL	-RC07G226JS			
0032A					R5					
0033	00002.000	EA		0972476-0001	CAP, .01UF, 1% 50WVDC MINIMUM	SEE	- TI DRAWING			
0033A					C4 C6					
0035	00001.000	EA		0972709-0001	CONNECTOR, RS-232, 25 PIN MALE					
0035A					P2					
0036	00002.000	EA		0972763-0013	CAP, FIXED .010UF 50 VOLTS	004222-MC105E103Z				
0036A					C3, C5					
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
			J. R. [Signature]	4-17-79			COMMUNICATIONS INTERFACE MODULE			
APPROVING		DATE	APPROVING ENGINEER	DATE	RELEASED	DATE	PROJECT NO			
							7506	LM0946105-0001 V#		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946105-0001		REV V#		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0037	00001.000	EA		0539371-0385	RES FIX FILM 1.00K OHM 1% .13 WATT	COR - NC4				
0037A					R1					
0038	00001.000	EA		0539370-0289	RES FIX FILM 100 OHM 1% .25 WATT	COR - NAS5				
0038A					R3					
0039	00001.000	EA		0539370-0466	RES FIX FILM 6.98K OHM 1% .25 WATT	COR - NAS5				
0039A					R6					
0040	00001.000	EA		0972763-0033	CAP FIXED .47 UF 50 VOLTS	UC -C53C474Z				
0040A					C7					
0041	00001.000	EA		0539370-0452	RES FIX FILM 4.99K OHM 1% .25 WATT	COR -NAS5B-100PPH/C				
0041A					R7					
0042	00001.000	EA		0772923-0005	SWITCH DUAL IN LINE, 8 POSITION	APP -435166-5				
0042A					U50					
0043	00001.000	EA		0538031-0005	CRYSTAL UNIT QUARTZ 9.8304 MHZ .005%	NIL -CR60A/U 9.8304				
0043A					Y1					
0044	REF	EA		0946107-9901	DIAG, LOGIC, COMMUNICATIONS I/F MODULE					
0045	REF	EA		0946108-9901	UNIT/SPARES TEST PRO, COMM INTERFACE MOD					
0046	REF	EA		0946109-9901	SPEC, COMMUNICATIONS INTERFACE MODULE					
0047	00001.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-DILB40P-100				
0047A					XU22					
0048	00001.000	EA		2210188-0002	SOCKET, LOW PROFILE, DIP, 14 PINS	003612-DILB14P-100				
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
							COMMUNICATIONS INTERFACE MODULE			
APPROVING		DATE	APPROVING ENGINEER	DATE	RELEASED	DATE	PROJECT NO			
								LM0946105-0001 V#		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946105-0001		REV V#		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0048A					XU76					
0049	00001.000	EA		0972927-0048	CAP FIX MICA 300V 750 PF 5%	QPL	-CH09F751JOC			
0049A					C2					
0050	00020.000	EA		0972763-0021	CAP, FIXED, AXIAL LEAD, .047 UF, +80%, -20%					
0050A					C10 THRU C29					
0053	00001.000	EA		0972926-0002	CAP FIX MICA 500V 5.0 PF +/- 0.5 PF	QPL	-CH04C05000D			
0053A					C1					
0054	00001.000	EA		0222222-7164	NETWORK SN74164N	TI-	-SN74164N			
0054A					U39					
0056	00005.000	FT		0535978-0072	WIRE #30 AWG GRAY ELECT, SOLID KYMAR	BR	-09755			
0057	00003.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75068-007				
0057A					E0 E1 E2					
0058	00001.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH					
0059	00002.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10% 20 VOLT	QPL	-H39083/1-2295			
0059A					C8 C9					
0060	00002.000	EA		0538844-0001	EJECTOR, NYLON, NON-LOCKING, PHB					
0061	00000.167	FT		0417177-0223	SLEEVE, PVC .4500 DIA CLEAR .015 SMALL THK					
0062	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302				
0063	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20410-2				
0064	00002.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES					
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
							COMMUNICATIONS INTERFACE MODULE			
APPROVING		DATE	APPROVING ENGINEER	DATE	RELEASED	DATE	PROJECT NO			
								LM0946105-0001 V#		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946105-0001		REV V#		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0065	00004.000	EA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRES	QPL	-MS15795-803			
0066	00002.000	EA		0411104-0135	WASHER, LOCK-SPRING, HELICAL, #4	QPL	-MS35338-135			
0067	00002.000	EA		0416453-0021	NUT, PLAIN, 4-40 UNC-2B HEX, CRES, SMALL	QPL	-NAS671-C4			
0068	00002.000	EA		0972929-0427	CAP FIX CERAMIC .047 UF 10% 50 V					
0068A					C30 C31					
0069	00002.000	FT		0972436-0003	INSUL SLEEVING, PVC .034 ID X .016 THK #20	MKL	-HT-105C-20			
0070	00008.000	EA		0972929-0409	CAP FIX CERAMIC 4700 PF 10% 100 V	QPL	-H39014/01-1409			
0070A					C32 C33 C34 C35 C36 C37					
0070B					C38 C39					
0071	00004.000	EA		0972946-0107	RES FIX 56 K OHM 5% .25 W CARBON FILM	ROH	-R-25			
0071A					R8 R9 R10 R11					
0072	00001.000	EA		0946105-5001	AUTO-INSERTED PARTS LIST FOR 946105-0001					
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
							COMMUNICATIONS INTERFACE MODULE			
APPROVING		DATE	APPROVING ENGINEER	DATE	RELEASED	DATE	PROJECT NO			
								LM0946105-0001 V#		

Communications Interface Module

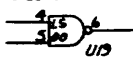
TEXAS INSTRUMENTS INCORPORATED		DATE 04/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946105-5001		REV V J	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0946106-0001	PNB, COMMUNICATIONS INTERFACE MODULE						
0002	00001.000	EA		0222222-7401	NETWORK SN7401N						
0002A					U26						
0003	00004.000	EA		0972900-7404	NETWORK SN74LS04N						
0003A					U21 U25 U34 U57						
0004	00002.000	EA		0972749-0001	NETWORK, SN74LS08N						
0004A					U20 U58						
0005	00004.000	EA		0219402-7420	NETWORK SN74S20N						
0005A					U2 U53 U59 U60						
0006	00001.000	EA		0222222-7414	NETWORK SN7414N						
0006A					U55						
0007	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N				
0007A					U3 U35 U43						
0008	00001.000	EA		0222222-7437	NETWORK SN7437N						
0008A					U33						
0009	00005.000	EA		0972900-7474	NETWORK SN74LS74N						
0009A					U7 U8 U41 U47 U52						
0010	00001.000	EA		0972751-0001	NETWORK, SN74LS04N						
0010A					U14						
0011	00001.000	EA		0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N				
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 946105-0001											
APPRO. INFO DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0946105-5001 REV V J											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/17/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946105-5001		REV V J	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0011A					U42						
0012	00002.000	EA		0222222-7120	NETWORK-SN74120N	TI	-SN74120N				
0012A					U27 U45						
0013	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI	-SN74LS138N				
0013A					U4 U9						
0014	00001.000	EA		0972900-7153	NETWORK SN74LS153N	TI	-SN74LS153N				
0014A					U56						
0015	00003.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0015A					U63 U64 U65						
0016	00003.000	EA		0222222-7161	NETWORK SN74161N	-SN74161N					
0016A					U24 U61 U62						
0017	00002.000	EA		0972900-7410	NETWORK SN74LS10N						
0017A					U13 U40						
0019	00005.000	EA		0972668-0001	NETWORK SN74LS251N						
0019A					U28 U29 U30 U31 U32						
0020	00006.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N				
0020A					U5 U10 U11 U12 U48 U66						
0021	00002.000	EA		0972159-7265	NETWORK, SN74265N						
0021A					U1 U6						
0024	00001.000	EA		0996035-0001	IC, 4 BIT COUNTER SN74390	TI	-SN74390				
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 946105-0001											
APPRO. INFO DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0946105-5001 REV V J											

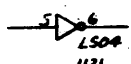
TEXAS INSTRUMENTS INCORPORATED		DATE 04/17/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946105-5001		REV V J	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0024A					U68						
0025	00002.000	EA		0996035-0002	IC, 4 BIT COUNTER SN74393N	-SN74393N					
0025A					U67 U75						
0026	00001.000	EA		0996033-0001	IC, TIMING DELAY NE556	TI	-NE556				
0026A					U49						
0027	00004.000	EA		0996668-0001	IC, LINE DRIVER 9636TC	007263-9636TC					
0027A					U70 U71 U72 U73						
0028	00002.000	EA		0972450-0002	NETWORK, SN75189AN/MC1489AL QUAD LINE RCN	SEE	- TI DRAWING				
0028A					U69 U74						
0030	00003.000	EA		0972900-7400	NETWORK SN74LS00N	TI	-SN74LS00N				
0030A					U19 U46 U51						
0052	00001.000	EA		0222222-7400	NETWORK SN7400N	-SN7400N					
0052A					U54						
0055	00001.000	EA		0972007-3180	NETWORK RESISTOR 1.0K 2% 14 PIN 7 ELEM	BEC	- 899-3-R1.0K				
0055A					U44						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 946105-0001											
APPRO. INFO DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0946105-5001 REV V J											

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DEVICE TYPES ARE PREFIXED WITH
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S, PIN 8 OF ALL 16-PIN IC'S, AND PIN 10 OF ALL 20-PIN IC'S
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S, AND PIN 20 OF ALL 20-PIN IC'S
4. DEVICE TYPE, PIN NUMBERS AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



U19



LS04
U21

00 AND 04 = DEVICE TYPE
 4, 5 AND 6 = PIN NUMBERS
 U19 AND U21 = REFERENCE DESIGNATORS

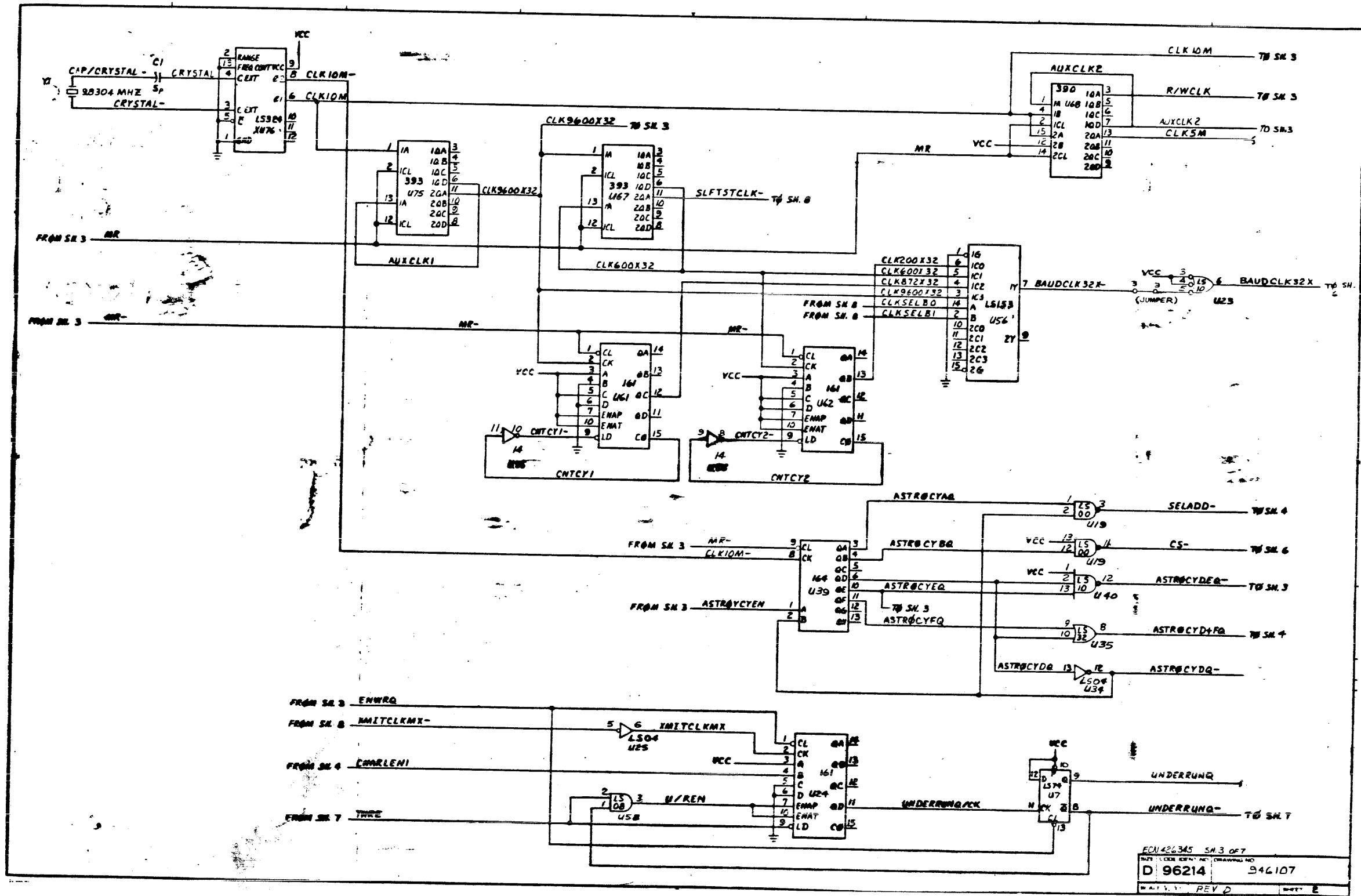
5. ALL RESISTORS ARE 1/4 WATT, 1%
6. ALL CAPACITORS ARE 10%

REVISIONS			
REV. NO.	DESCRIPTION	DATE	APPROVED
A	CN 41824 (C) R. J. J. W. / LLO	11/17/76	[Signature]
B	CN 419422 (C) R. B. L.	5-21-77	[Signature]
C	CN 417960 (C) L. T. H. M.	5-11-77	[Signature]
D	CN 426345 (D) R. R. R. / R. R. R. / R. R. R. / R. R. R.	5-18-78	[Signature]

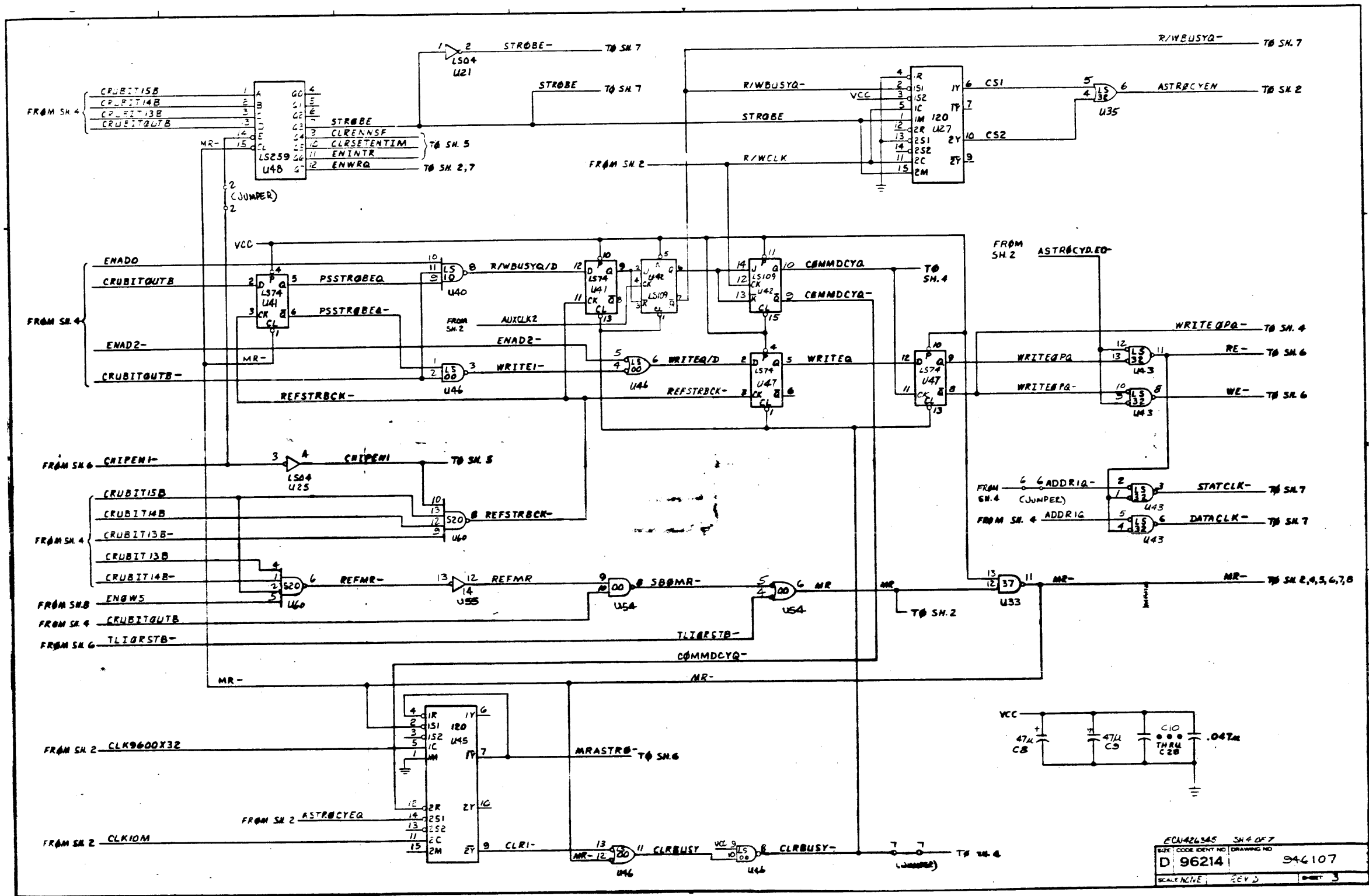
REV STATUS	RPV	C	D	D	D	D	D
OF SHEETS	Sheet	1	2	3	4	5	6

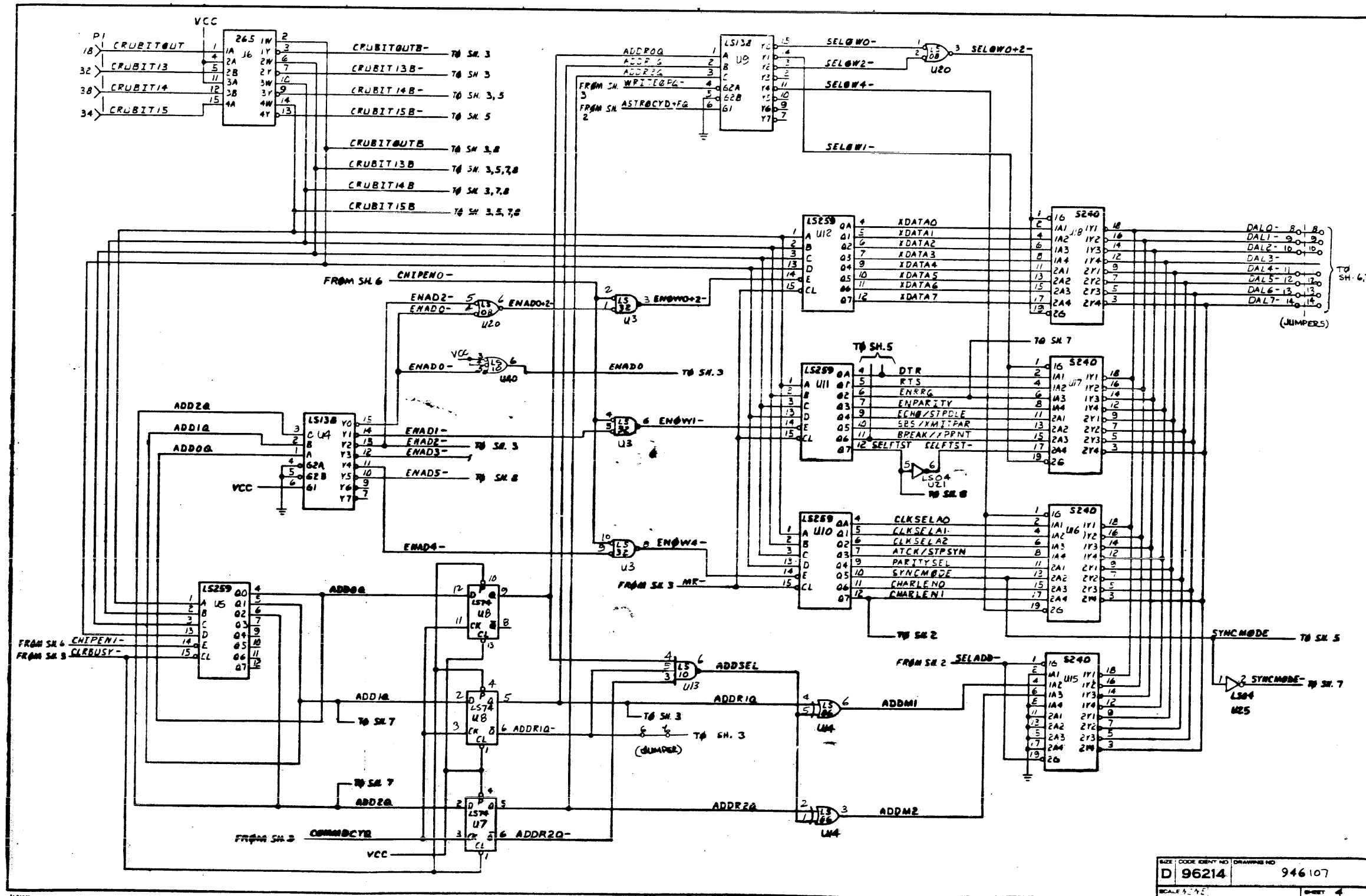
QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST						
UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIMENSIONS .010 IN DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWINGS IN ACCORDANCE WITH MIL-STD-100				DIMENSIONS ARE IN INCHES TOLERANCES ANGLES 90° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02		
HOLE TOLERANCE .013 +.004 .128 -.001 .301 +.008 .750 -.001				.013 +.004 .128 +.008 .250 +.001 .500 +.001 .750 +.001 1.000 +.001 2.000 +.001		
DWN: J. Linneman 6/21/76 CKR: C. Keeler 8/3/76 ENR: J. Linneman 5/14/76 GAT: J. Linneman 2/14/76 PWS: J. Linneman 8/18/76 CDR: J. Linneman 8/18/76				DATE: 8/18/76 TEXAS INSTRUMENTS THE CORPORATION Equipment Group Dallas, Texas LOGIC DIAGRAM COMM. I/F MODULE SIZE: CODE IDENT NO: DRAWING NO: D 96214 946107 SCALE: 100% SHEET 1 OF 8		

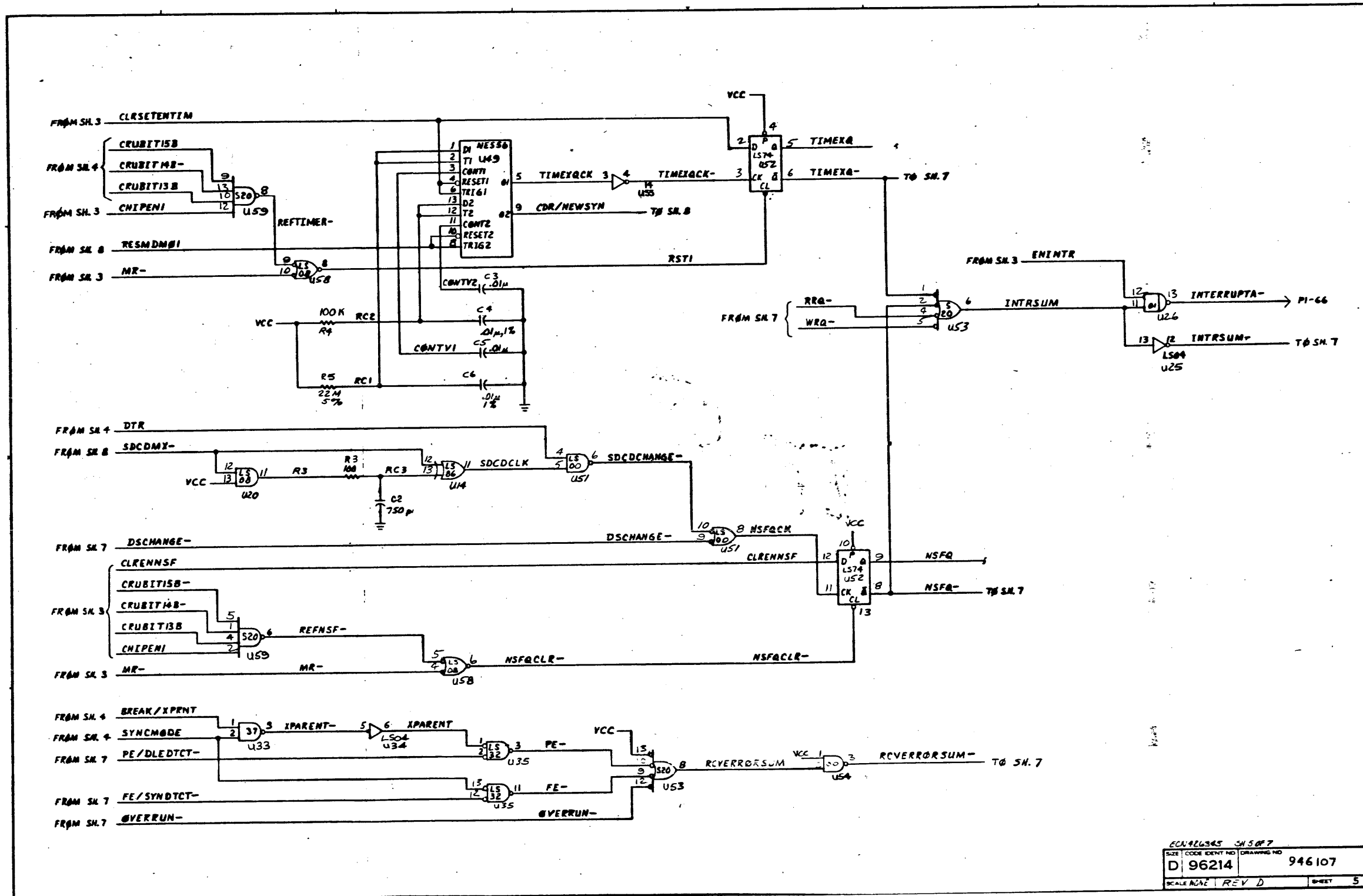
Communications Interface Module Logic Diagram



ECN 426345 SM 3 OF 7
 D 96214 346107
 REV D

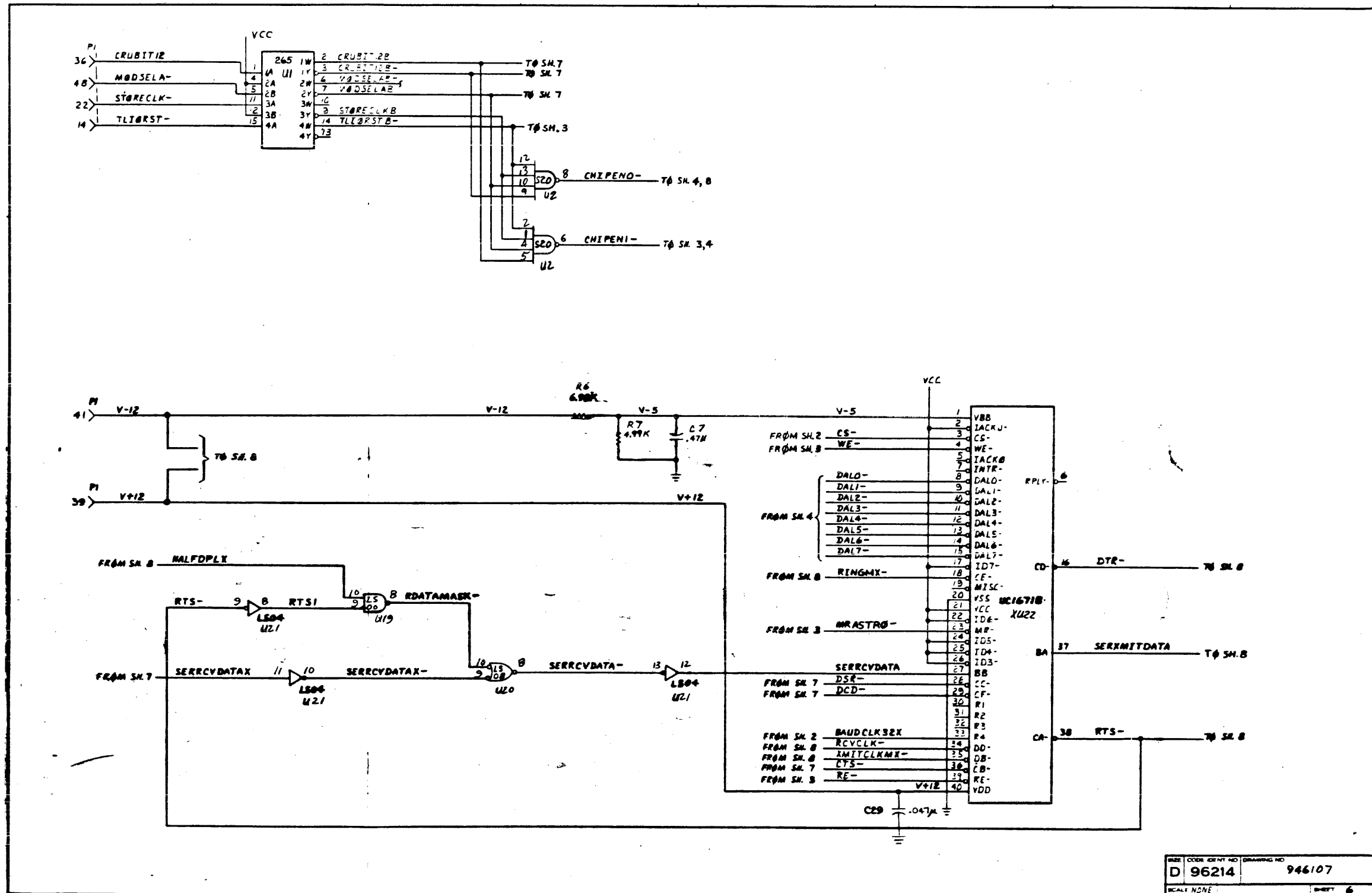




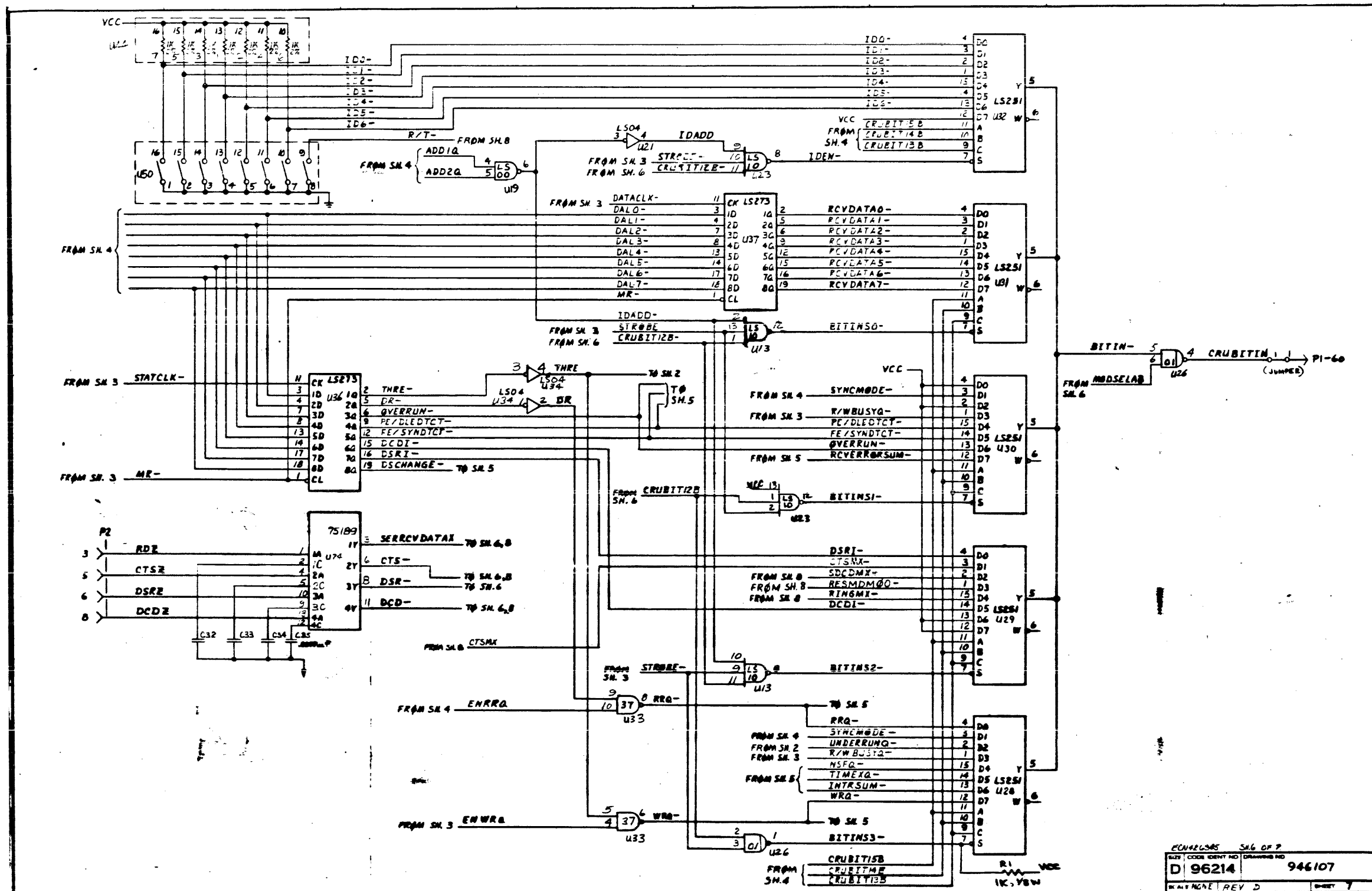


SIZE	CODE IDENT NO	DRAWING NO
D	96214	946107
SCALE	REV	SHEET
	D	5

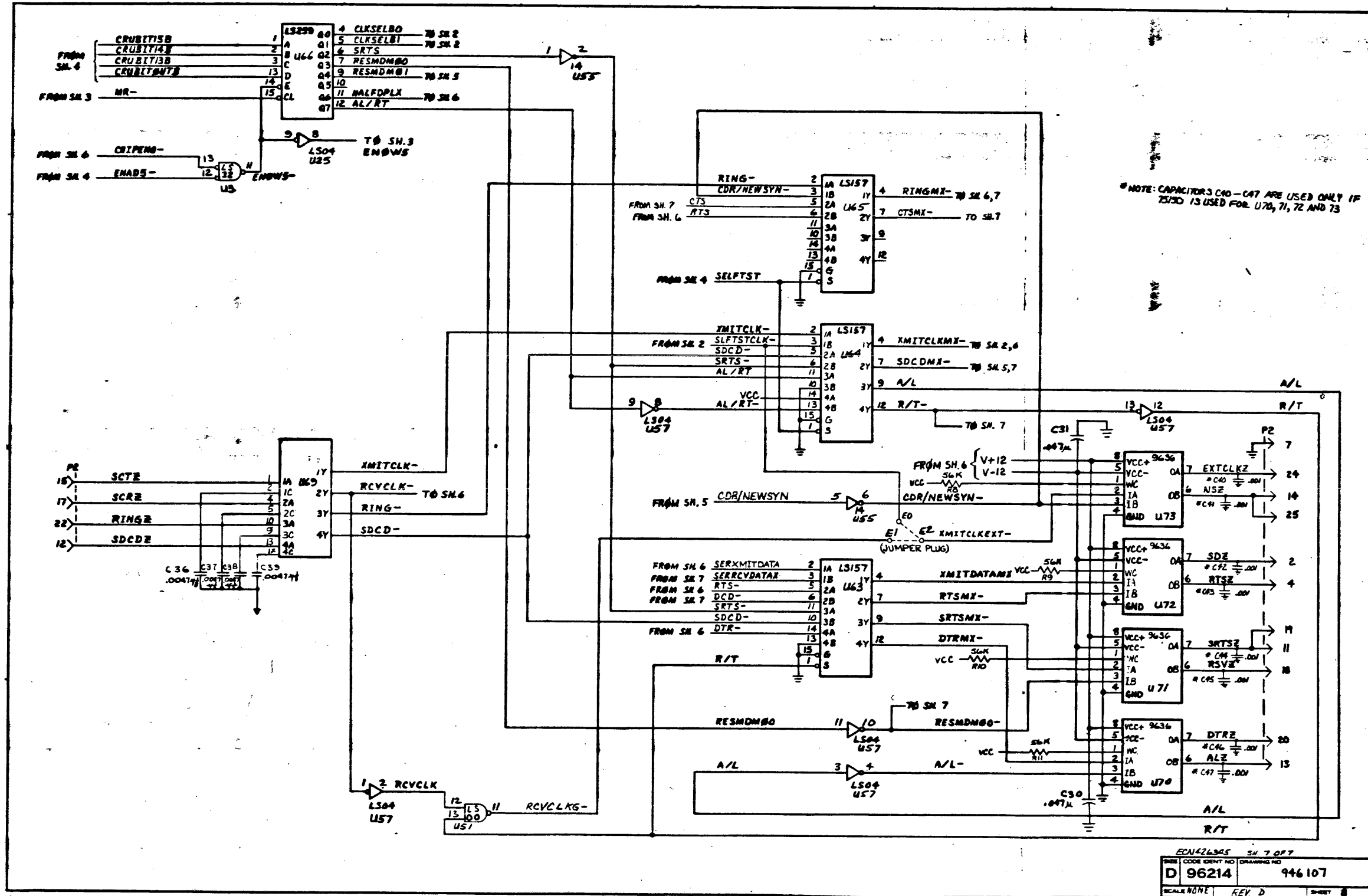
Communications Interface Module Logic Diagram



REV	CODE	IDENT	NO	DRAWING NO
D	96214			946107
SCALE NONE				SHEET 6



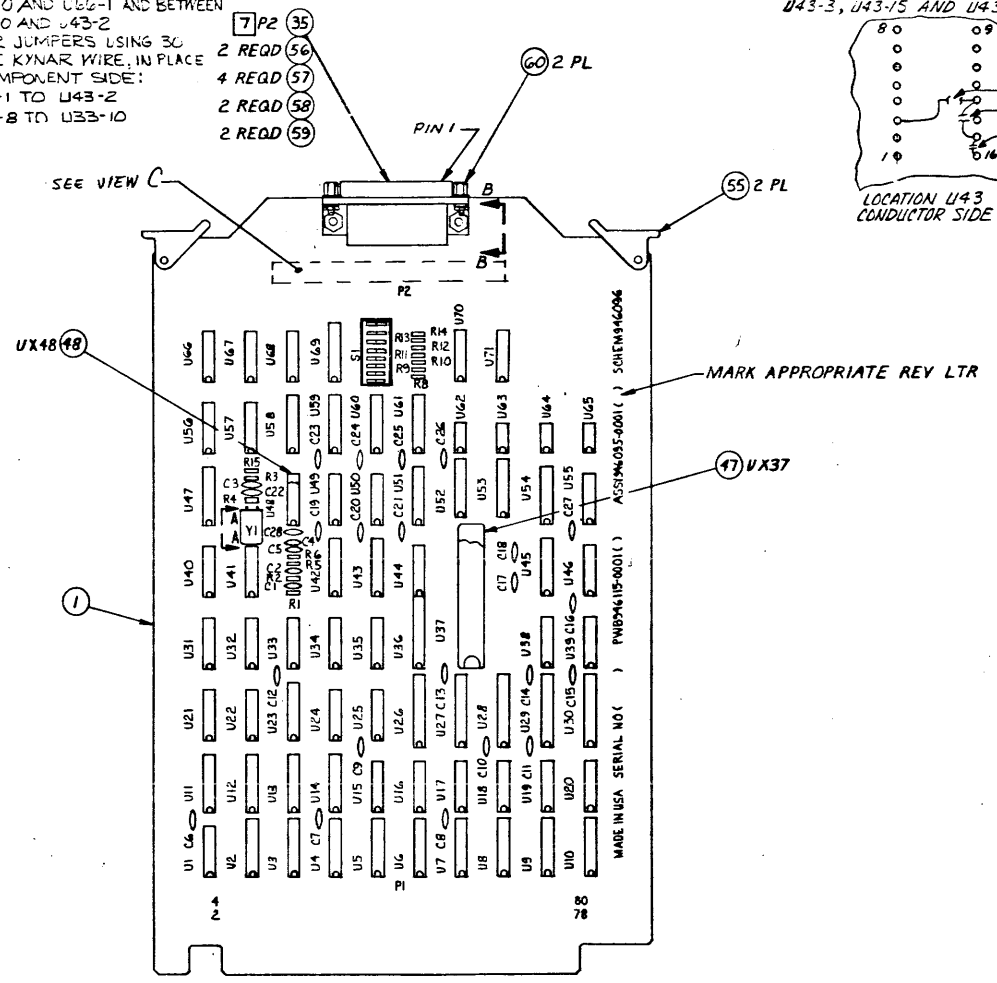
PCN 96214		S46 OF 7	
SHEET	CODE IDENT NO	DRAWING NO	
D 96214		946107	
SCALE	NGA	REV	D
			SHEET 7



NOTES: CONTINUED

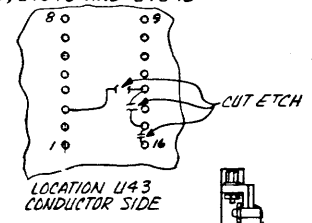
6. ON THE FIRST 160 UNITS BUILT, REWORK M-W-B 946115:
- A. ISOLATE U33-10 BY CUTTING ETCHES (2 FRONT)
 - B. VERIFY OPEN CIRCUIT BETWEEN U23-10 AND U66-1 AND BETWEEN U33-10 AND U43-2
 - C. SOLDER JUMPERS USING 30 GAUGE KYNAR WIRE, IN PLACE ON COMPONENT SIDE:
U66-1 TO U43-2
U33-8 TO U33-10

- 7 P2 (35)
- 2 REQD (56)
- 4 REQD (57)
- 2 REQD (58)
- 2 REQD (59)



NOTES: CONTINUED

5. ON THE FIRST 160 UNITS BUILT, REWORK M-W-B 946115:
- A. CUT ETCH CONNECTING PINS 3, 13, 15 AND 16 OF LOCATION U43. (SOLDER SIDE OF BOARD)
 - B. USING VOM, VERIFY OPEN CIRCUITS BETWEEN U43-3, U43-15 AND U43-16



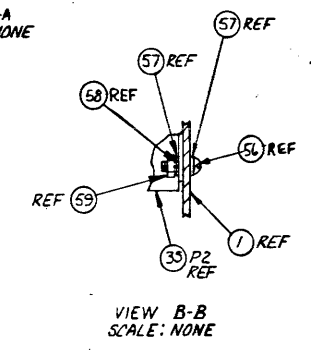
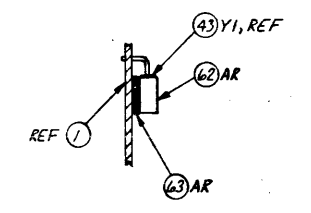
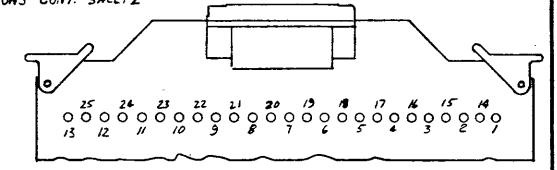
NOTES:

- 1. R7 SHOWN ON SILKSREEN BUT NOT USED
- 2. C28 NOT SHOWN ON SILKSREEN BUT IS USED, IT IS LOCATED IN SAME COLUMN AND JUST BELOW U48
- 3. LOCATE Y1 R4, C22, C3, R5 AND R15 IN SAME COLUMN ONE LOCATION UP FROM THAT SHOWN ON SILKSREEN
- 4. ON THE FIRST 160 UNITS BUILT, REWORK M-W-B 946115:
 - A. ISOLATE U35-13 BY CUTTING ETCHES (1 FRONT, 15 BACK)
 - B. VERIFY OPEN CIRCUIT BETWEEN U35-13, U37-4 AND U41-11
 - C. SOLDER JUMPERS, USING 30 ANG KYNAR WIRE.

- U41-11 TO U37-4 (CONDUCTOR SIDE)
- U25-10 TO U35-13 (COMPONENT SIDE)
- U41-9 TO U35-12 (COMPONENT SIDE)

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN-411917 (C) Skill U) ADDED NOTE 6	5/11/76	J. J. [Signature]
B		CN-428774 (C) S. [Signature] (1) ADDED NOTE 7, NOTE 8 (2) ADDED VIEW "C" (3) REVISED "REWORK" HEADING ON NOTES 4, 5, 6 (4) ADDED PIN 1 DESIGNATION TO P2 (5) ADDED SH. 2 (6) REVISED REV LEVEL BLOCK	6/30/76	J. J. [Signature]
C		CN-407657 (C) R. Q. [Signature] (1) UPDATED REV LEVEL BLOCK (2) ON LM, PN & DESC OF ITEM 33 WAS: 411004-1002, CAP. FIXED MYLAR DIELECT. 0.1uF 1% 200 VDC C1 C2.	7/23/76	J. J. [Signature]
D		-U41LL (1) [Signature] (1) NOTE 4 C WAS SOLDER... IN PLACE ON COMP SIDE (2) ADDED COND 1 COMP SIDE TO NOTE 4C (3) UPDATED REV LEVEL BLOCK	8/18/76	J. J. [Signature]
E		CN-417301 (E) J. Dallas (1) L/M, -15 ITEM 50 WAS 972759-001, 5.5V CAP (2) UPDATED REV LEVEL BLK	9-28-76	J. J. [Signature]

REVISIONS CONT. SHEET 2



NOTES: CONTINUED

7. ON THE FIRST 160 UNITS BUILT, ITEM 35 MUST BE REPLACED WITH FOLLOWING:

QTY	PIN	DESCRIPTION
2	946094-0001	BRACKET, CONNECTOR
1	539409-0005	CONNECTOR, RACK AND PANEL
15	539430-0083	CONTACT, SIZE 20, FORMED
AR	538347-2993	WIRE, HOOK-UP

CRIMP WIRE INTO CONTACTS. INSERT CONTACTS INTO HOUSING. ATTACH HOUSING AND CONTACTS TO BOARD USING HARDWARE SHOWN ON DRAWING. SOLDER WIRES FROM THE CONNECTOR TO THE BOARD PER THE FOLLOWING TABLE (SEE VIEW C FOR BOARD PAD #). INSTALLING WIRE #5 4 AND 5 LAST TO CINCH BUNDLE. (NOTES CONT. SHEET 2)

CONNECTOR PIN #	13,12,11	8,7,6,5	4,3,2,25	24,22,20	19,18,17,15,14
BOARD PAD #	1,2,3	6,7,8,9	10,11,12,14	15,17,19	20,21,22,24,25
WIRE #	1,2,3	4,15,5,4	7,8,9,10	11,12,13	14,15,16,17,18

TEST PROC	946093-9901	A	A	A	A	A	A	B	B	B	B	C
LOGIC 946093-9901	*	A	A	A	A	A	A	B	B	B	B	C
BOARD 946115-0001	*	*	*	*	A	E	E	B	B	B	B	B
ASSY 946095	*	A	B	C	D	E	F	G	H	J	K	L

PROCESSES:

- 1. SOLDER PER F-127, METHOD I, A/C/F/F F-124
- 2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .12, COLOR BLACK

REV STATUS OF SHEETS	REV	L	I
	SHEET	1	2

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED	DATE
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES	5-9-76
CONCENTRICITY MACHINED DIAMETERS: 0.10 F8	TOLERANCES	5/11/76
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES ± 1°	5/11/76
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ± 0.10	5/11/76
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	2 PLACE DECIMALS ± 0.2	
HOLE TOLERANCE		
Ø.013 +.004	-.126 +.005	251 +.006
THRU -.001	THRU -.001	THRU 500 -.001
50	THRU -.010	THRU 1.00
THRU +.008	THRU -.010	THRU +.017
750	-.001	1.000 -.001
		2.000 -.001

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

OWN	DATE
J. J. [Signature]	5-9-76
CHK	DATE
J. J. [Signature]	5/11/76
ENGR	DATE
J. J. [Signature]	5/11/76
QA	DATE
J. J. [Signature]	5/11/76
APPR	DATE
J. J. [Signature]	5/11/76
CONTR NO	
DESIGN ACTIVITY RELEASE	

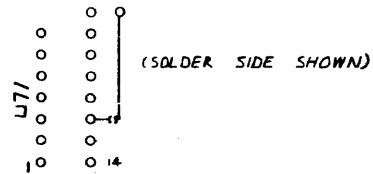
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946095

SCALE	SHEET
1/1	1 OF 2

NOTES: CONTINUED

B. ON THE FIRST 160 UNITS BUILT, REWORK M-W-B 946115:

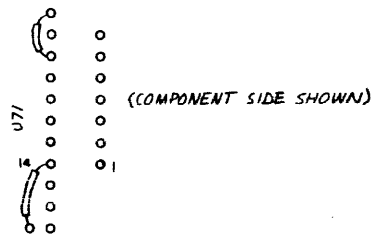
A. CUT ETCH (SOLDER SIDE) BETWEEN U71-12 AND VCC



B. VERIFY OPEN CIRCUIT BETWEEN U71-12 AND VCC

C. SOLDER JUMPERS, USING 30 GAUGE KYA:AR WIRE, IN PLACE ON COMPONENT SIDE

U71-14 TO VCC
U71-9 TO PAD DIRECTLY ABOVE U71-8

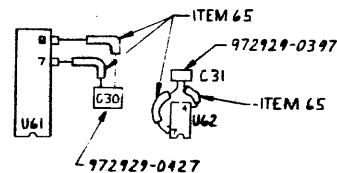


9. REMOVE THE WIRE FROM PIN 9 OF U41 (SN74LS32N) TO PIN 12 OF U35 (SN741AN). CUT PINS 9 OF U41 AS CLOSE TO THE BOARD AS POSSIBLE AND LIFT WITHOUT BREAKING THE PIN. USING ITEM 64, JUMPER LIFTED PIN 9 OF U41 TO PIN 13 OF U41.

10. REWORK PROCEDURE FOR CHANGING ITEM 47 FROM 539544-9 TO 996610-4, 40 PIN SOCKET:
a) REMOVE I.C. FROM SOCKET, LOCATION U37
b) REMOVE CAP FROM OLD SOCKET.
c) INSERT I.C. INTO UNCAPPED SOCKET PINS
d) SOLDER INTO PLACE

11. UPON REPLACEMENT OF U23, LS109, FOR ANY REASON THE FOLLOWING MODIFICATION MUST BE INCORPORATED: CUT PINS 8 & 9 OF U22 AS CLOSE TO THE BOARD AS POSSIBLE & LIFT WITHOUT BREAKING THE PINS. USING ITEM 64, JUMPER LIFTED PIN 9 OF U22 TO PINS 14 & 13 OF U23. JUMPER PIN 10 OF U23 TO PIN 2 OF U23. JUMPER PIN 9 OF U23 TO PIN 2 OF U42. JUMPER PIN 5 TO PIN 11 OF 23. JUMPER PIN 15 OF U23 TO PIN 13 OF U22. JUMPER PIN 12 OF U23 TO PIN 1 OF U51.

12. USING ITEM 62 TO PROTECT LEADS CONNECT ITEM 65, 0047 UF CAPACITOR, PN 972929-0427 BETWEEN PINS 7 & 8 OF U61 AS SHOWN. SIMILARLY CONNECT CAPACITOR, C31, PN 972929-0397 BETWEEN U62 PINS 4 & 7 AS SHOWN:



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	F	CA 422594 (D) ADDED (1) UPDATED REV LEVEL BLOCK	10/20/76	[Signature]
	G	CA 417307 (E) (1) ADDED (2) LM ITEM 2 WAS 972759-13 (2) UPDATED REV LEVEL BLOCK	3/15/77	[Signature]
	H	CA 411497 (AX) (1) ADDED NOTES (2) LM, ADDED ITEM 64 (3) ADDED TEST PROCEDURE & UPDATED REV LEVEL BLOCK	4-6-77	[Signature]
	J	CA 424391 (B) (1) LM-1 ITEM 47 PIN WAS 972544-0009 (2) UPDATED REV LEVEL BLOCK	6-10-77	[Signature]
	K	CA 427262 (C) (1) ECN # 424391 REV J WAS C-LEVEL (2) ADDED NOTE (3) UPDATED REV LEVEL BLOCK	8-17-77	[Signature]
	L	CA 426759 (E) (1) LM ITEM 2 PIN WAS 972403-7401 (2) ADDED ITEM 65 (3) ADDED NOTES (1) (2) (3) UPDATED REV LEVEL BLOCK	11-21-77	[Signature]

SIZE	CODE IDENT NO	DRAWING NO
D	96214	946095
SCALE	1/1	SHEET 2

TEXAS INSTRUMENTS INCORPORATED		DATE 11/17/77		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0946055-0001		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0946115-0001	MULTI-WIRE BOARD, CCM I/F MODULE							
0002	00001.000	EA		0222222-7401	NETWORK SN7401N							
0002A					L18							
0003	00004.000	EA		0972900-7404	NETWORK SN74LS04N							
0003A					U20,U55,U57,U68							
0004	00002.000	EA		0972745-0001	NETWORK, SN74LS08N							
0004A					U19,U38							
0005	00004.000	EA		0219402-7420	NETWORK SN74S20N							
0005A					U15,U16,U34,U31							
0006	00001.000	EA		0222222-7414	NETWORK SN7414N							
0006A					U35	TI -SN74LS32N						
0007	00003.000	EA		0972900-7432	NETWORK SN74LS32N							
0007A					L41,U56,U70							
0008	00001.000	EA		0222222-7437	NETWORK SN7437N							
0008A					U46							
0009	00005.000	EA		0972900-7474	NETWORK SN74LS74N							
0009A					U21,U22,U32,U40,U66							
0010	00001.000	EA		0972751-0001	NETWORK, SN74LS66N							
0010A					U24							
0011	00001.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N						
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CCMM I/F MODULE-MULTI-WIRE				
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
							7510	LM0946055-0001		L		

TEXAS INSTRUMENTS INCORPORATED		DATE 11/17/77		LIST of MATERIAL		PAGE 2 of		PART NUMBER LM0946055-0001		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0011A					U23							
0012	00002.000	EA		0222222-7120	NETWORK-SN74120N	TI -SN74120N						
0012A					U42,U43							
0013	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N						
0013A					L6,U39							
0014	00001.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N						
0014A					U54							
0015	00003.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N							
0015A					U45,U58,U59							
0016	00003.000	EA		0222222-7161	NETWORK SN74161N	-SN74161N						
0016A					L47,U52,U53							
0017	00002.000	EA		0972900-7410	NETWORK SN74LS10N							
0017A					U25,U67							
0018	00004.000	EA		0996046-0001	IC,OCTAL BUFFER/DRIVER SN74S24J	TI -SN74S24G						
0018A					U27,U28,U29,U30							
0019	00005.000	EA		0972668-0001	NETWORK SN74LS251N							
0019A					U11,U12,U13,U14,U65							
0020	00006.000	EA		0996023-0001	IC,LCM POWER SCHCTTKY 8 BIT SN74LS259N	TI -SN74LS259N						
0020A					L4 U5 U7 U8 U9 U10							
0021	00002.000	EA		0972159-7265	NETWORK, SN74265N							
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CCMM I/F MODULE-MULTI-WIRE				
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM0946055-0001		L		

TEXAS INSTRUMENTS INCORPORATED		DATE 11/17/77		LIST of MATERIAL		PAGE 3 of		PART NUMBER LM0946055-0001		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0021A					U2,U3							
0022	00002.000	EA		0996029-0001	IC,OCTAL D-TYPE FLIP-FLOP SN74LS273N	TI -SN74LS273N						
0022A					U26,U36							
0023	00001.000	EA		0996032-0001	IC,OSCILLATOR,VOLTAGE-CUNT SN74LS324N	TI -SN74LS324N						
0023A					U48							
0024	00001.000	EA		0996035-0001	IC, 4 BIT COUNTER SN74390	TI -SN74390						
0024A					U51							
0025	00002.000	EA		0996035-0002	IC,4 BIT COUNTER SN74393	TI -SN74393						
0025A					U49,U50							
0026	00001.000	EA		0996033-0001	IC,TIMING DELAY NE556	TI -NE556						
0026A					U33							
0027	00004.000	EA		0537948-0001	NETWORK SN75150P	TI -SN75150P						
0027A					U62,U63,U64,U65							
0028	00002.000	EA		0537947-0001	NETWORK SN75154N	TI -SN75154N						
0028A					U60,U61							
0029	00001.000	EA		0996047-0001	IC,RECEIVE/TRANSMITTER UC1671B	TI -UC1671B						
0029A					U37							
0030	00002.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N						
0030A					U1,U44							
0031	00001.000	EA		0539370-0576	RES FIX FILM 97.6K OHM 1% .25 WATT	COR - NA55						
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CCMM I/F MODULE-MULTI-WIRE				
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM0946055-0001		L		

TEXAS INSTRUMENTS INCORPORATED		DATE 11/17/77		LIST of MATERIAL		PAGE 4 of		PART NUMBER LM0946055-0001		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0031A					R1							
0032	00001.000	EA		0972976-0191	RES FIX COMP 1/4 W 22 MEGOHM 5%	QPL -RC070226J5						
0032A					R2							
0033	00002.000	EA		0972476-0001	CAP, .01UF, 1% 50WVDC MINIMUM	SEE - TI DRAWING						
0033A					C1,C2							
0035	00001.000	EA		0972705-0001	CONNECTOR,RS-232,25 PIN MALE							
0035A					P2							
0036	00002.000	EA		0972763-0013	CAP, FIXED .010UF 50 VCLTS	004222-MC105E1032						
0036A					C3,C4							
0037	00009.000	EA		0539370-0385	RES FIX FILM 1.00K OHM 1% .25 WATT	COR - NA55						
0037A					R3,R8 THRU R15							
0038	00001.000	EA		0539370-0289	RES FIX FILM 100 OHM 1% .25 WATT	COR - NA55						
0038A					R4							
0039	00001.000	EA		0539370-0466	RES FIX FILM 6.98K OHM 1% .25 WATT	COR - NA55						
0039A					R5							
0040	00001.000	EA		0972763-0033	CAP FIXED .47 UF 50 VOLTS	UC -C53C4742						
0040A					C5							
0041	00001.000	EA		0539370-0452	RES FIX FILM 4.99K OHM 1% .25 WATT	COR -NA55C-100PPM/C						
0041A					R6							
0042	00001.000	EA		0772923-0005	SWITCH DUAL IN LINE, 8 POSITION	AMP -435166-5						
DRAFTSMAN		DATE	CKD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CCMM I/F MODULE-MULTI-WIRE				
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM0946055-0001		L		

TEXAS INSTRUMENTS INCORPORATED		DATE 11/17/77		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946055-0001		REV L		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0042A				S1								
0043	00001.000	EA		0538031-0005	CRYSTAL UNIT QUARTZ 9.8304 MHZ .005%	MIL	-CK60A/U 9.8304					
0043A				Y1								
0044	REF	EA		J946056-9901	DIAG, LOGIC, COMM I/F MODULE -Mw							
0045	REF	EA		J946108-9901	TEST PROC, COMMUNICATIONS I/F MODULE							
0046	REF	EA		J946109-9901	SPEC, COMMUNICATIONS INTERFACE MODULE							
0047	00001.000	EA		J996610-0004	SOCKET, 40PINS DIP PWB MTG GOLD PLATED	000779	-530195-2					
0047A				XU37								
0048	00001.000	EA		0539544-0001	SOCKET, 14PIN IC LOW PROFILE SOLDER TAIL	TI	-C93-14-02					
0048A				XU48								
0049	00001.000	EA		0972927-0048	CAP FIX MICA 300V 750 PF 5 %	WPL	-CM05F751JCC					
0049A				C22								
0050	00021.000	EA		0972763-0021	CAP, FIXED, AXIAL LEAD, .047 UF, +80%, -20%							
0050A				C6 THRU C21, C23 THRU C27								
0052	00001.000	EA		0222222-7400	NETWORK SN7400N		-SN7400N					
0052A				U17								
0053	00001.000	EA		0972926-0002	CAP FIX MICA 500V 5.0 PF +/- 0.5 PF	WPL	-CM04C05000L					
0053A				C28								
0054	00001.000	EA		0222222-7164	NETWORK SN74164N	TI-	-SN74164N					
0054A				U71								
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE COMM I/F MODULE-MULTI-WIRE					
APP'D -MFC		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
							PART NUMBER LM0946055-0001					
							REV L					

TEXAS INSTRUMENTS INCORPORATED		DATE 11/17/77		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946055-0001		REV L		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0055	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB							
0056	00002.000	EA		J972988-0014	SCREW 4-40 X .312 PAN HEAD CRES							
0057	00004.000	EA		U-16622-0011	WASHER #4 FLAT	QPL	-AN960C4L					
0058	00002.000	EA		J-11104-0135	WASHER #4 LOCKSPLIT	QPL	-MS35335-135					
0059	00002.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS	-35649-244					
0060	00002.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE	-D20418-z					
0061	REF	EA		0946089-9901	CROSS REF LIST- MULTIWIRE REF DESIGNATOR							
0062	AR	FT		0417177-J223	SLEEVE, PVC .450DIA CLEAR .015WALL THK							
0063	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL	-917-6502					
0064	00000.250	FT		0535578-0072	WIRE #30 ANG GRAY ELECT, SOLID KYNAR	BR	-J5755					
0065	00001.000	EA		0972929-0427	CAP FIX CERAMIC .047 UF 10 % 50 V	WPL	-M35014/01-1427					
0065A				C30								
0066	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10% 200V	WPL	-M34014/01-1397					
0066A				C31								
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE COMM I/F MODULE-MULTI-WIRE					
APP'D -MFC		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
							PART NUMBER LM0946055-0001					
							REV L					

NOTES: UNLESS OTHERWISE SPECIFIED;
 1. ALL DEVICE TYPES ARE PREFIXED WITH SN74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S, PIN 8 OF ALL 16-PIN IC'S AND PIN 10 OF ALL 20-PIN IC'S
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S AND PIN 20 OF ALL 20-PIN IC'S
 4. DEVICE TYPE, PIN NUMBERS AND LOCATION OF IC IS SHOWN AS FOLLOWS:



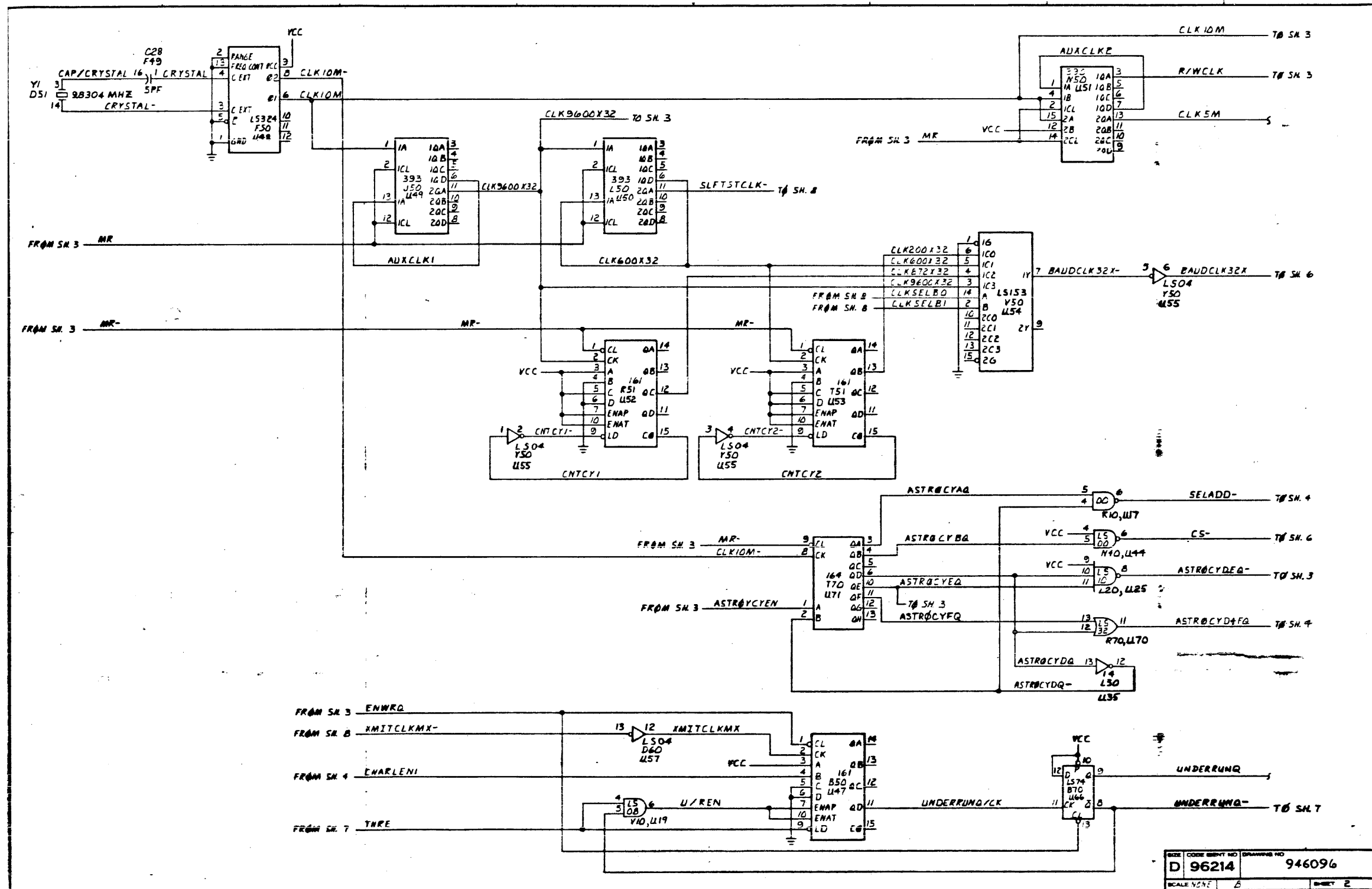
00 AND 14 = DEVICE TYPE
 4, 5 AND 6 = PIN NUMBERS
 R10 AND L30 = LOCATION: FIRST LETTER DENOTES COLUMN, SECOND AND THIRD DIGITS DENOTE ROW - PIN 1 OF IC IS LOCATED AT THE INTERSECTION OF COLUMN AND ROW
 REFERENCE DESIGNATORS PREFIXED WITH U, C, R, AND Y MAY BE FOUND NEAR THE LOCATION DESIGNATOR AND PROVIDE A CROSS REFERENCE BETWEEN A/D'S DOCUMENTATION AND COMM I/F MODULE ASSEMBLY'S SYMBOLIZATION.
 5. ALL RESISTORS ARE 1/4 WATT, 1%

REVISIONS				
ZONE	LT#	DESCRIPTION	DATE	APPROVED
A		CN409420(ET) B.S.	9/12/76	[Signature]
B		CN426360(C) W.D.B.	10-18-77	[Signature]

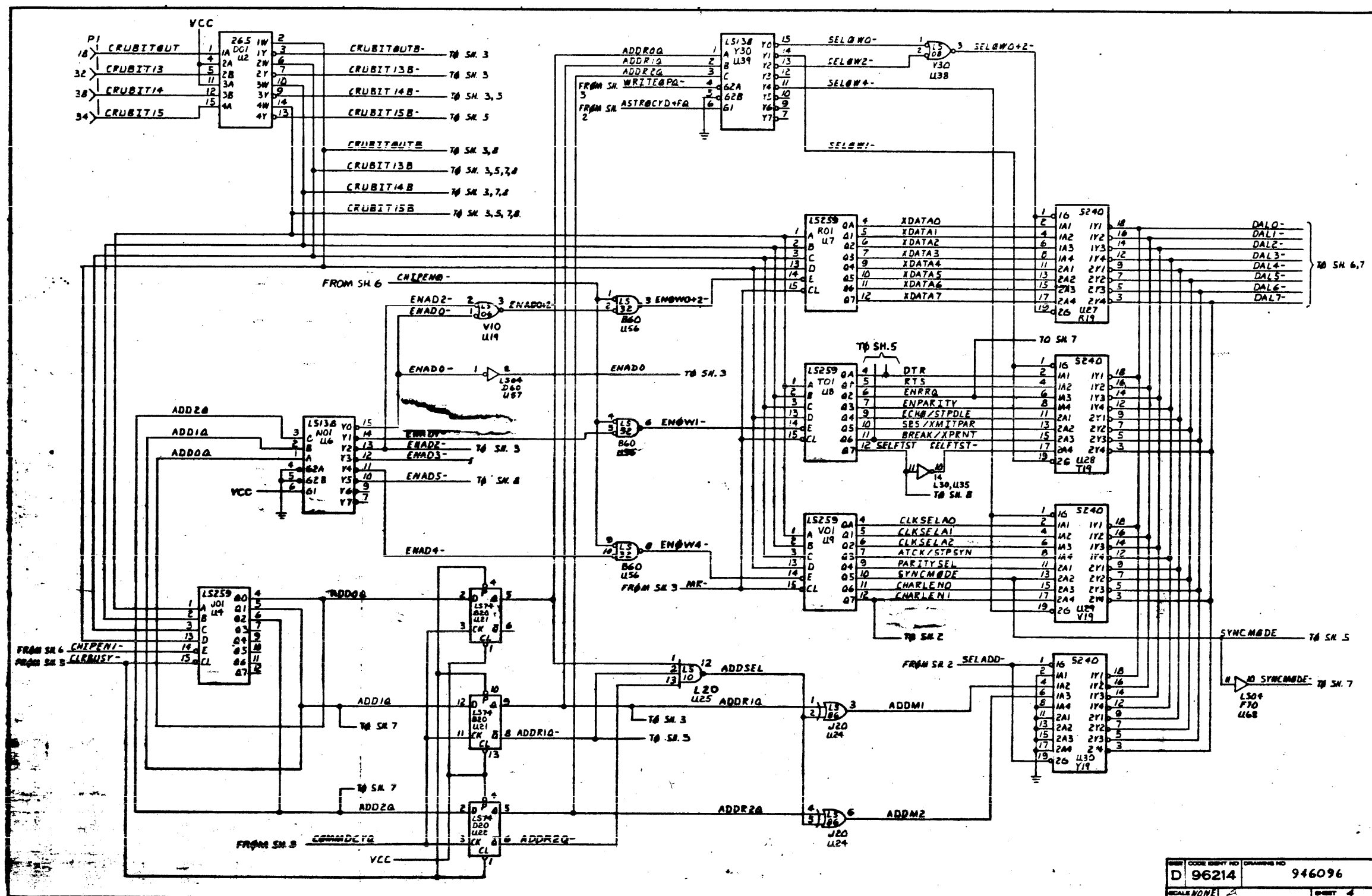
REV STATUS	REV	B	B	B	B	B	B		
OF SHEETS	SHEET	1	2	3	4	5	6	7	8

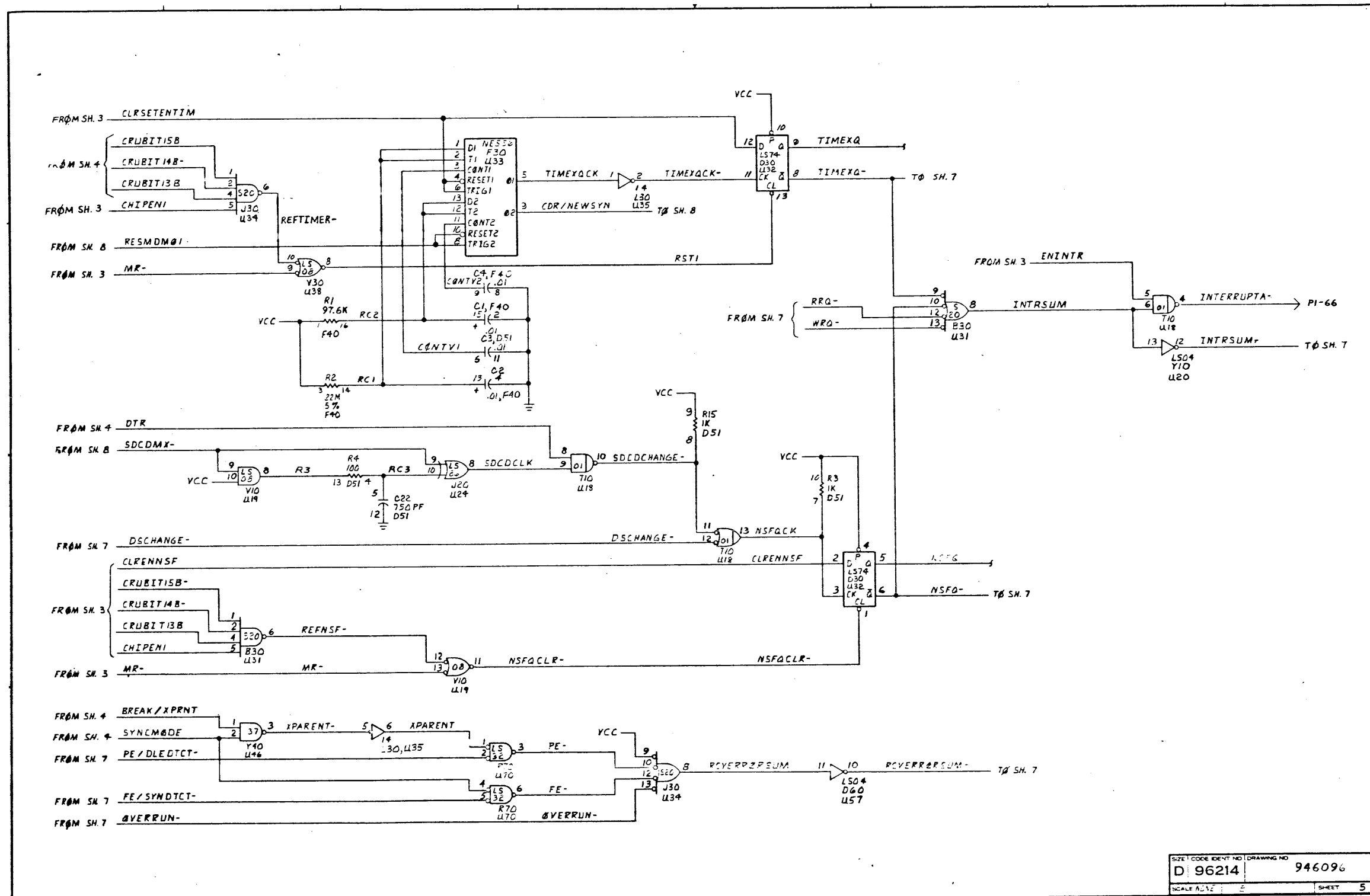
QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
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UNLESS OTHERWISE SPECIFIED REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 P/R DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS = .010 2 PLACE DECIMALS = .02	DATE: 4/20/76 DWG: R. [Signature] CHK: [Signature] ENG: [Signature] APP: [Signature] CONTR NO:	TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas Texas LOGIC DIAGRAM COMM. I/F MODULE - MW
HOLE TOLERANCE .013 - .020 .005 .021 - .030 .005 .031 - .040 .005 .041 - .050 .005 .051 - .070 .005 .071 - .080 .005 .081 - .100 .005 .101 - .120 .005 .121 - .150 .005 .151 - .200 .005 .201 - .300 .005 .301 - .500 .005 .501 - 1.000 .005	946095 7510 NEXT ASSY USED ON APPLICATION	DESIGN ACTIVITY RELEASE [Signature] 4/27/76 [Signature] 7/76	SIZE: D 96214 DRAWING NO: 946096 SCALE: 1/2"=1" SHEET 1 OF 8

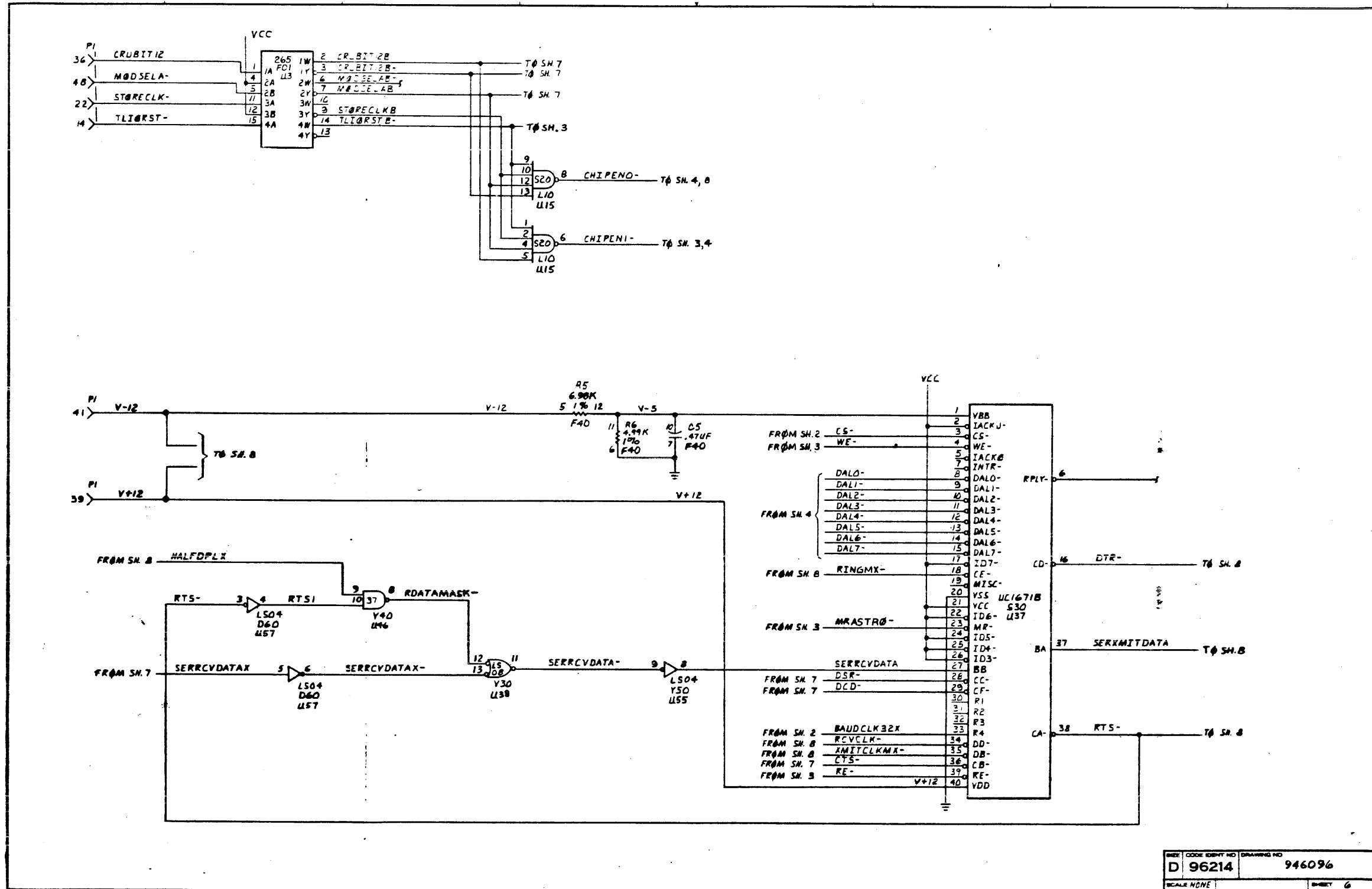


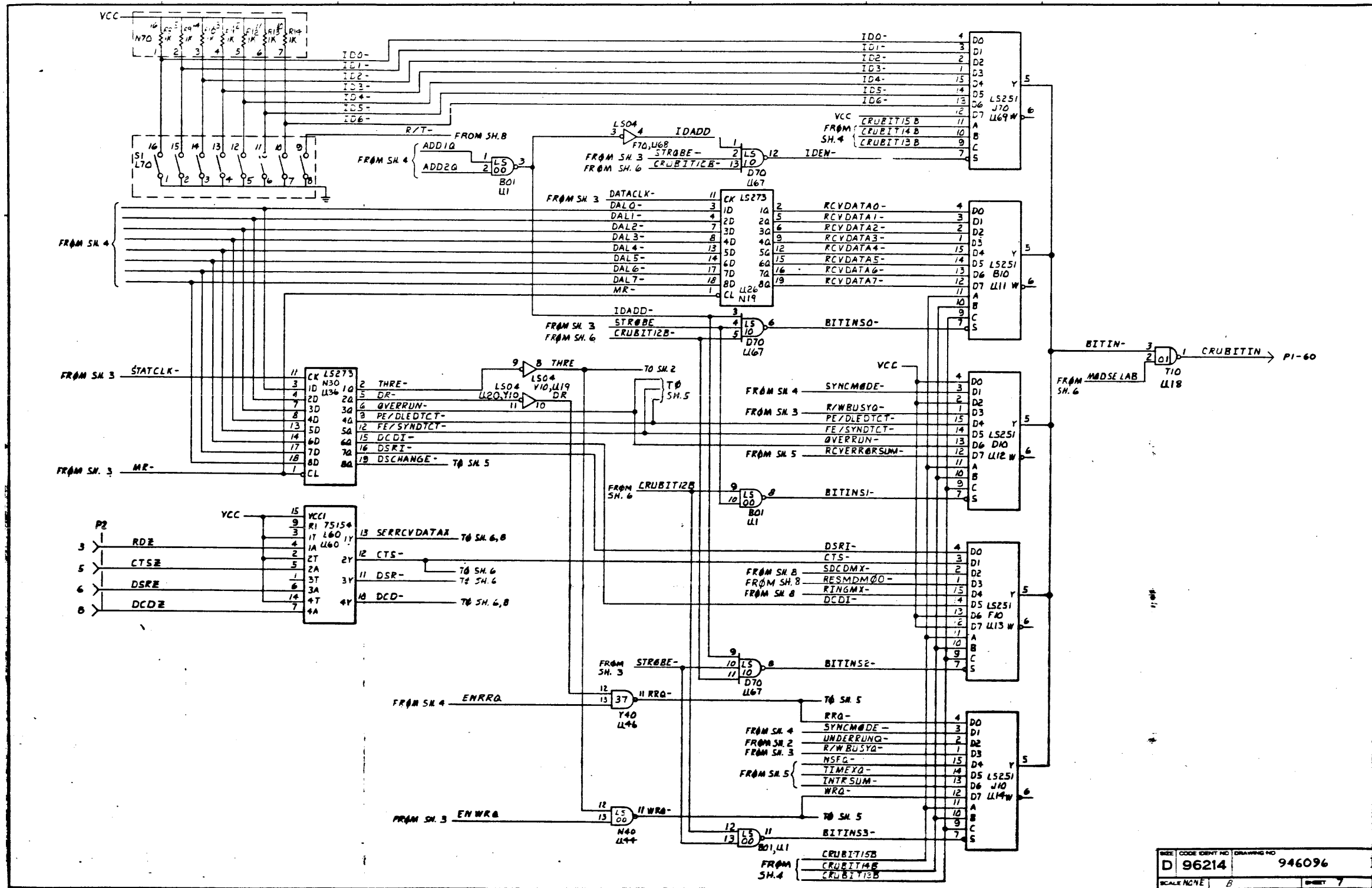
SIZE	CODE	REPT NO	DRAWING NO
D	96214		946096
SCALE	NONE		SHEET 2



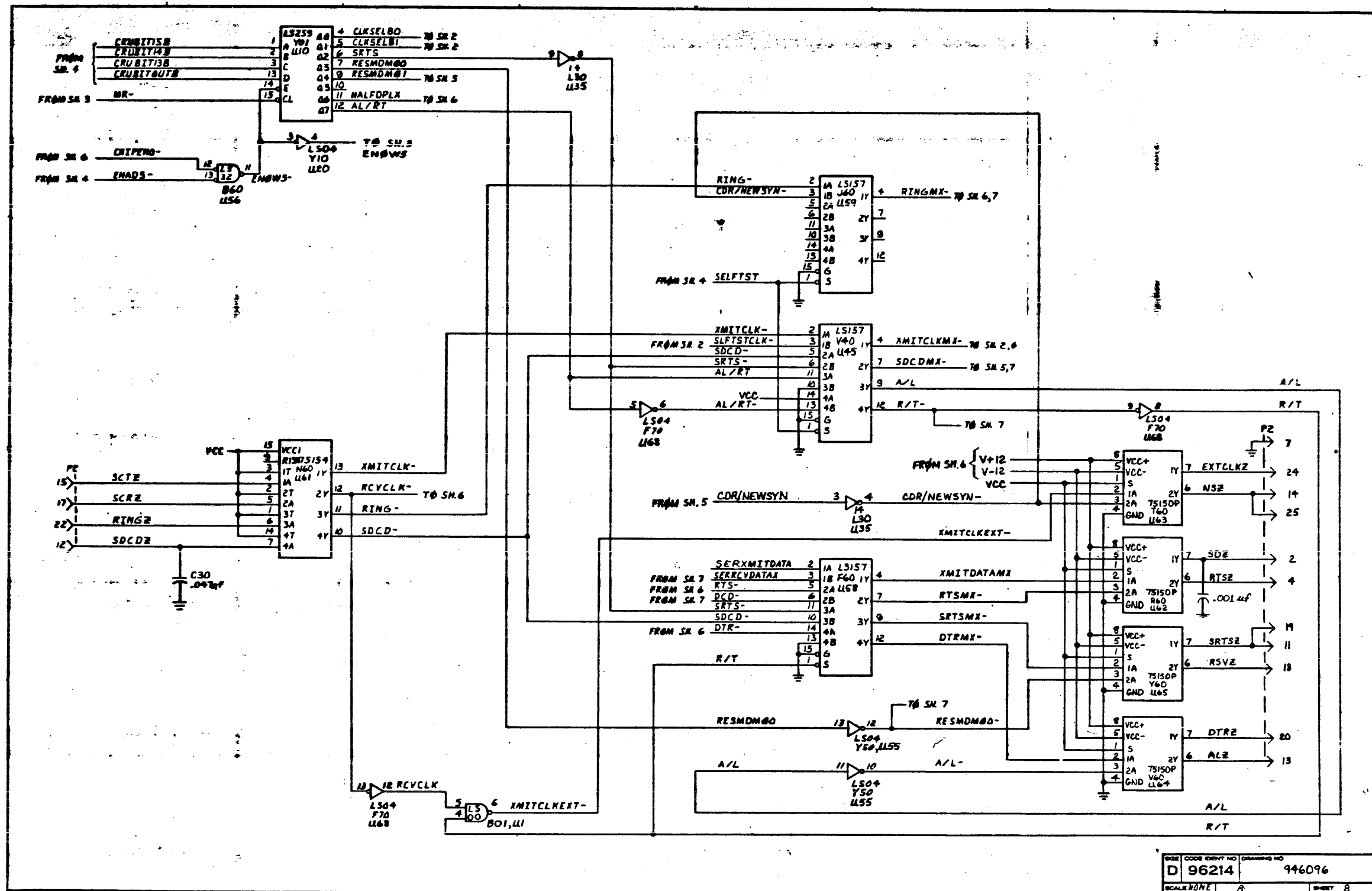


SIZE: CODE IDENT NO: DRAWING NO: 946096
 D 96214
 SCALE: 1:1 SHEET 5



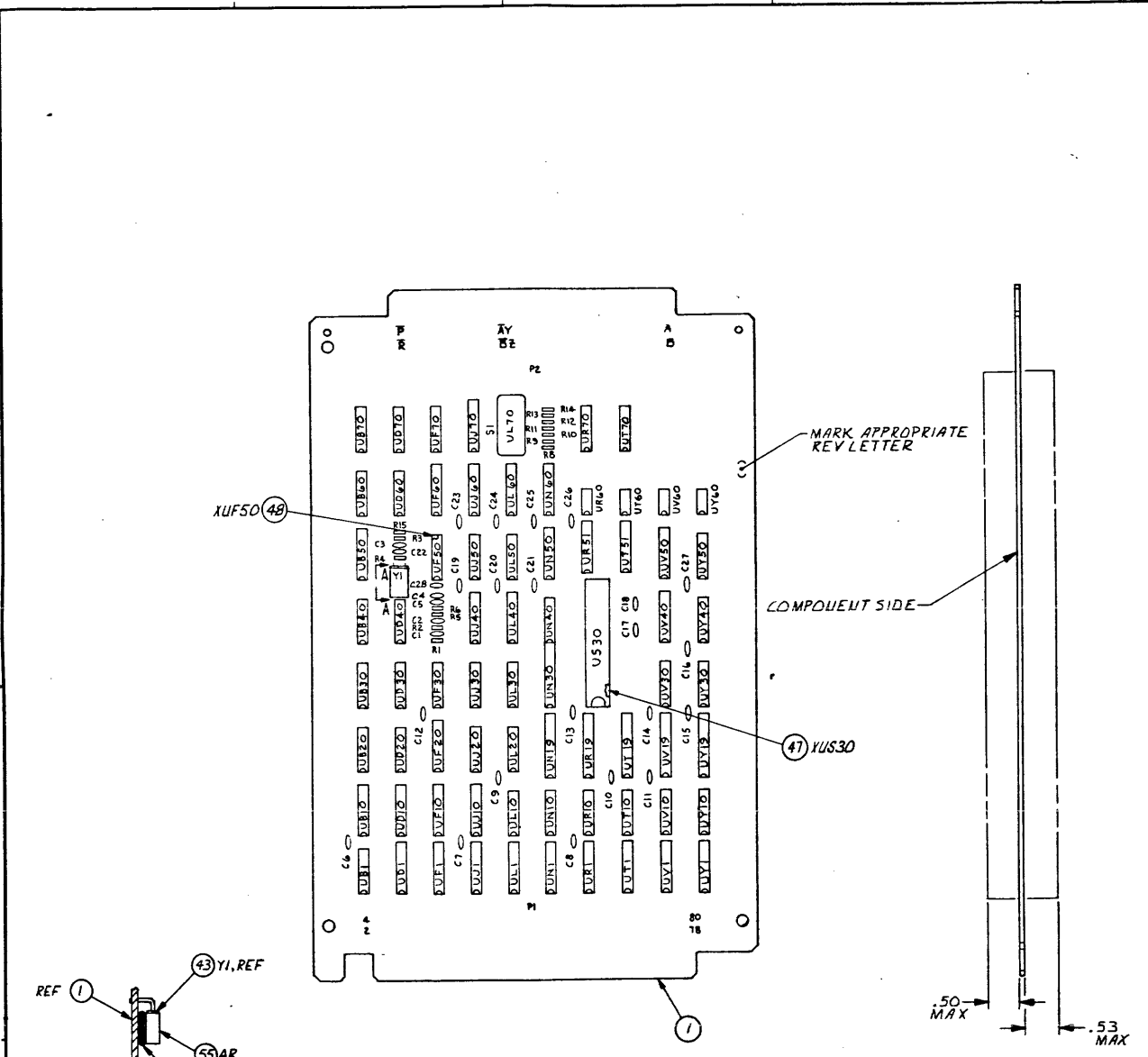


SHEET CODE IDENT NO. DRAWING NO. 96214 946096
 SCALE NONE B SHEET 7



ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		1. WIRE WRAP (C) R. J. ... (1) UPDATED REV LEVEL BLOCK	5/1/76	W. J. ...
B		CN417301 (E) & Shillog (1) - 1 LM, ITEM 59 WAS 972759-002, 2SV CAP (2) UPDATED REV LEVEL BLOCK	9-28-76	J. P. ...
C		CN417307 (E) L. Tuttle (1) LM ITEM 36 WAS 972759-13 (2) UPDATED REV LEVEL BLOCK	3/15/77	W. J. ...
D		CN424391 (C) C. ... (1) LM-1 ITEM 47 WAS PIN 539544-000A (2) UPDATED REV LEVEL BLOCK AND ADDED TEST PROCEDURE	6-10-77	W. J. ...

DISCRETE COMPONENT LOCATION		
COMPONENT	START	FINISH
C1	F40-2	F40-15
C2	F40-4	F40-13
C3	DS1-6	DS1-11
C4	F40-8	F40-9
C5	F40-7	F40-10
C6	-A01-61	-A01-V1
C7	-H01-61	-H01-V1
C8	-P01-61	-P01-V1
C9	-K01-62	-K01-V2
C10	-S01-62	-S01-V2
C11	-U01-62	-U01-V2
C12	-E01-63	-E01-V3
C13	-P01-63	-P01-V3
C14	-U01-63	-U01-V3
C15	-X01-63	-X01-V3
C16	-X01-64	-X01-V4
C17	T40-1	T40-4
C18	T40-5	T40-8
C19	-H01-65	-H01-V5
C20	-K01-65	-K01-V5
C21	-M01-65	-M01-V5
C22	DS1-5	DS1-12
C23	-H01-66	-H01-V6
C24	-K01-66	-K01-V6
C25	-A01-66	-A01-V6
C26	-P01-66	-P01-V6
C27	-X01-65	-X01-V5
C28	F49-1	F49-16
R1	F40-1	F40-16
R2	F40-3	F40-14
R3	DS1-7	DS1-10
R4	DS1-4	DS1-13
R5	F40-5	F40-12
R6	F40-6	F40-11
R8	N70-1	N70-16
R9	N70-2	N70-15
R10	N70-3	N70-14
R11	N70-4	N70-13
R12	N70-5	N70-12
R13	N70-6	N70-11
R14	N70-7	N70-10
R15	DS1-8	DS1-9
Y1	DS1-3	DS1-14



REV LEVEL	TEST PROCEDURE	DIAGRAM	PWB	ASSY	946103	946097	946102	946101	B	A	A	A	A	A	A	B	C	D
			*	*		*	*	*										

PROCESSES:
 1. SOLDER PER F-127, METHOD I AND/OR F-124
 2. MARK PER F-100, METHOD II, CLASS I, HEIGHT .12, COLOR BLACK

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED
 REMOVE ALL BURRS AND SHARP EDGES
 CONCENTRICITY MACHINED DIAMETERS .010 PIR
 DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
 IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
 INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100

HOLE TOLERANCE
 .013 + .004 THRU .004
 .125 - .001 THRU .001
 .251 + .006 THRU .006
 .500 - .001 THRU .001
 .94-3-258 .75/0
 NEXT ASSY USED ON APPLICATION

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES
 ANGLES ±1°
 3 PLACE DECIMALS ±.010
 2 PLACE DECIMALS ±.02

DATE 3-24-76
 DWN A. Ojeda
 CHG. J. Holman * 5/1/76
 ENG. S. Johnson 5/15/76
 APP. J. ... 5/15/76
 CONTR NO. 67 Jumbo 5/17/76

DESIGN ACTIVITY RELEASE
 J. ... 5/15/76
 R. K. ... 5/1/76

TEXAS INSTRUMENTS
 Equipment Group Dallas, Texas

COMMUNICATION I/F MODULE / WIRE WRAP

SIZE CODE IDENT NO DRAWING NO
 D 96214 946101

SCALE 1/1 SHEET

TEXAS INSTRUMENTS INCORPORATED		DATE 06/05/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946101-0001		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0946102-0001	BOARD-INT,CCMP I/F MODULE						
0002	0001.000	EA		J9729JC-7401	IC,SN74LS01N	TI	-SN74LS01N				
0002A					UT10						
0003	0004.000	EA		J5729CC-7404	NETWORK SN74LS04N						
0003A					UV10,UV50,UD60,UF70						
0004	0002.000	EA		0972749-0001	NETWORK, SN74LS06N						
0004A					LV10,UV30						
0005	0004.000	EA		J2194J2-7420	NETWRK SN74S20N						
0005A					LL10,LN10,LJ30,UB30						
0006	0001.000	EA		0222222-7414	NETWRK SN7414N						
0006A					LL30						
0007	0003.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N				
0007A					UD40,UB60,UR70						
0008	0001.000	EA		0222222-7437	NETWRK SN7437N						
0008A					UY40						
0009	0005.000	EA		J972900-7474	NETWORK SN74LS74N						
0009A					LB20,UC20,UC30,UB40,UB70						
0010	0001.000	EA		0972751-0001	NETWRK, SA74LS06N						
0010A					LJ20						
0011	0001.000	EA		0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N				
DRAFTSMAN: [Signature] DATE: 06/05/77 DESIGN ENGINEER: [Signature] TITLE: CCMP I/F MODULE - WIRE WRAP APP'D: [Signature] DATE: 06/05/77 PROJECT NO: 7506 PART NUMBER: LM0946101-0001 REV: L											

TEXAS INSTRUMENTS INCORPORATED		DATE 06/05/77		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946101-0001		REV D	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0011A					UF20						
0012	0002.000	EA		0222222-7120	NETWRK-SN74120N	TI	-SN74120N				
0012A					UJ40,UL40						
0013	0002.000	EA		09729CC-7138	NETWORK SA74LS138N	TI	-SN74LS138N				
0013A					LN1,UY30						
0014	0001.000	EA		09729CC-7153	NETWORK SA74LS153N	TI	-SN74LS153N				
0014A					UV50						
0015	0003.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0015A					UV40,UF60,UJ60						
0016	0003.000	EA		0222222-7161	NETWRK SN74161N						
0016A					LB50,UR51,UT51						
0017	0002.000	EA		09729CC-7410	NETWRK SN74LS10N						
0017A					LL20,LD70						
0018	0004.000	EA		0996046-0001	IC, OCTAL BUFFER/DRIVER SN74S240	TI	-SN74S240				
0018A					UR19,UT19,UV19,UV19						
0019	0005.000	EA		0972628-0001	NETWORK SN74LS251N						
0019A					UB10,UD10,UF10,UJ10,UJ70						
0020	0006.000	EA		09729CC-7259	REPLACED BY 996023-0001						
0020A					UJ1,UL1,UR1,LT1,UV1,UV1						
0021	0002.000	EA		J972159-7265	NETWORK, SN74265N						
DRAFTSMAN: [Signature] DATE: 06/05/77 DESIGN ENGINEER: [Signature] TITLE: CCMP I/F MODULE - WIRE WRAP APP'D: [Signature] DATE: 06/05/77 PROJECT NO: 7506 PART NUMBER: LM0946101-0001 REV: D											

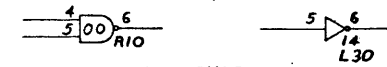
TEXAS INSTRUMENTS INCORPORATED		DATE 06/05/77		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946101-0001		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021A					LD1,UF1						
0022	0002.000	EA		0996J29-0001	IC, OCTAL D-TYPE FLIP-FLOP SN74LS273N	TI	-SN74LS273N				
0022A					LN19,UN30						
0023	0001.000	EA		0996032-0001	IC, OSCILLATOR, VOLTAGE-CENT SN74LS324N	TI	-SN74LS324N				
0023A					LF50						
0024	0001.000	EA		J996035-0001	IC, 4 BIT COUNTER SN74390	TI	-SN74390				
0024A					UN50						
0025	0002.000	EA		0996035-0002	IC, 4 BIT COUNTER SN74393	TI	-SN74393				
0025A					LJ50,UL50						
0026	0001.000	EA		0996033-0001	IC, TIMING DELAY NE556	TI	-NE556				
0026A					UF30						
0027	0004.000	EA		J537948-0001	NETWORK SN75150P	TI	-SN75150P				
0027A					UR60,LT60,UV60,UY60						
0028	0002.000	EA		J537947-0001	NETWORK SN75154N	TI	-SN75154N				
0028A					UL60,UN60						
0029	0001.000	EA		0996047-0001	IC, RECEIVE/TRANSMITTER UC1671B	TI	-UC1671B				
0029A					LS30						
0030	0002.000	EA		09729CC-7460	NETWORK SN74LS00N	TI	-SN74LS00N				
0030A					LB1,UA40						
0031	0001.000	EA		J539370-0576	RES FIX FILM 97.5K OHM 1/4 WATT	COR	-NA55				
DRAFTSMAN: [Signature] DATE: 06/05/77 DESIGN ENGINEER: [Signature] TITLE: CCMP I/F MODULE - WIRE WRAP APP'D: [Signature] DATE: 06/05/77 PROJECT NO: 7506 PART NUMBER: LM0946101-0001 REV: L											

TEXAS INSTRUMENTS INCORPORATED		DATE 06/05/77		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946101-0001		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0031A					R1						
0032	0001.000	EA		0972976-0151	RES FIX CCMP 1/4 W 22 MEGOHM 5 R	QPL	-BC076226JS				
0032A					R2						
0033	0002.000	EA		0411004-1002	CAP, FIXED MYLAR DIELECTRIC .01UF 1% 200VDC						
0033A					C1, C2						
0036	0002.000	EA		0972763-0013	CAP, FIXED .010UF 50 VOLTS						
0036A					C3, C4						
0037	0005.000	EA		0535370-0385	RES FIX FILM 1.00K OHM 1/4 WATT	COR	-NA55				
0037A					R3, R8 THRU R15						
0038	0001.000	EA		0539370-0289	RES FIX FILM 100 OHM 1/4 WATT	COR	-NA55				
0038A					R4						
0039	0001.000	EA		0539370-0466	RES FIX FILM 6.58K OHM 1/4 WATT	COR	-NA55				
0039A					R5						
0040	0001.000	EA		0972763-0033	CAP FIXED .47 UF 50 VOLTS	UC	-C530474Z				
0040A					C5						
0041	0001.000	EA		0539370-0452	RES FIX FILM 6.99K OHM 1/4 WATT	COR	-NA55G-100PPH/L				
0041A					R6						
0042	0001.000	EA		0772923-0005	SWITCH DUAL IN LINE, 8 POSITION	AMP	-435166-5				
0042A					UL70						
0043	0001.000	EA		0538031-0005	CRYSTAL UNIT QUARTZ 5.8304 MHZ .005%	MIL	-CR60A/U 5.8304				
DRAFTSMAN: [Signature] DATE: 06/05/77 DESIGN ENGINEER: [Signature] TITLE: CCMP I/F MODULE - WIRE WRAP APP'D: [Signature] DATE: 06/05/77 PROJECT NO: 7506 PART NUMBER: LM0946101-0001 REV: L											

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0043A					Y1	
0044	REF	EA		0946057-9901	DIAG, LOGIC, CCMM I/F MODULE - MM	
0045	REF	EA		0946108-9901	TEST PROC, COMMUNICATIONS I/F MODULE	
0046	REF	EA		0946109-9501	SPEC, COMMUNICATIONS INTERFACE MODULE	
0047	00001.000	EA		0996610-0004	SOCKET, 40PINS DIP PWB MTD GOLD PLATED	JCC779-530195-2
0047A					XLS30	
0048	00001.000	EA		0539544-0001	SOCKET, 14PIN IC LOW PROFILE SOLDER TAIL	TI -CS3-14-02
0048A					XLF50	
0049	00001.000	EA		0972927-0048	CAP FIX MICA 300V 150 PF 5 %	GPL -CRC5F751JQC
0049A					C22	
0050	00021.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%	
0050A					C6 THRU C21, C23 TRBU C27	
0052	00001.000	EA		0222222-7400	NETWORK SN7400N	-SN7400N
0052A					LR10	
0053	00001.000	EA		0972926-0002	CAP FIX MICA 500V 5.0 PF +/- 0.5 PF	GPL -CRG4CG58000
0053A					C28	
0054	00001.000	EA		0222222-7164	NETWORK SN74164N	TI- -SN74164N
0054A					LT70	
0055	AR	FT		0417127-0223	SLEEVE, PVC .450 DIA CLEAR .015 WALL THK	
0056	AR	EA		0996069-0003	ADHESIVE, SOLID, THERMOPLASTIC ANAEROBIC	
DRAFTSMAN: _____ DATE: _____ CDD DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: CCMM I/F MODULE - WIRE WRAP						
APPO. ENG. DATE: _____ APPO. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO.: _____ PART NUMBER: LM0946101-0001 REV: D						

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
DRAFTSMAN: _____ DATE: _____ CDD DRAFTSMAN: _____ DATE: _____ DESIGN ENGINEER: _____ DATE: _____ TITLE: CCMM I/F MODULE - WIRE WRAP						
APPO. ENG. DATE: _____ APPO. PROJECT ENGINEER: _____ DATE: _____ RELEASED: _____ DATE: _____ PROJECT NO.: _____ PART NUMBER: LM0946101-0001 REV: D						

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. ALL DEVICE TYPES ARE PREFIXED WITH SN74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S, PIN 8 OF ALL 16-PIN IC'S AND PIN 10 OF ALL 20-PIN IC'S.
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S AND PIN 20 OF ALL 20-PIN IC'S.
 4. DEVICE TYPE, PIN NUMBERS AND LOCATION OF IC IS SHOWN AS FOLLOWS:

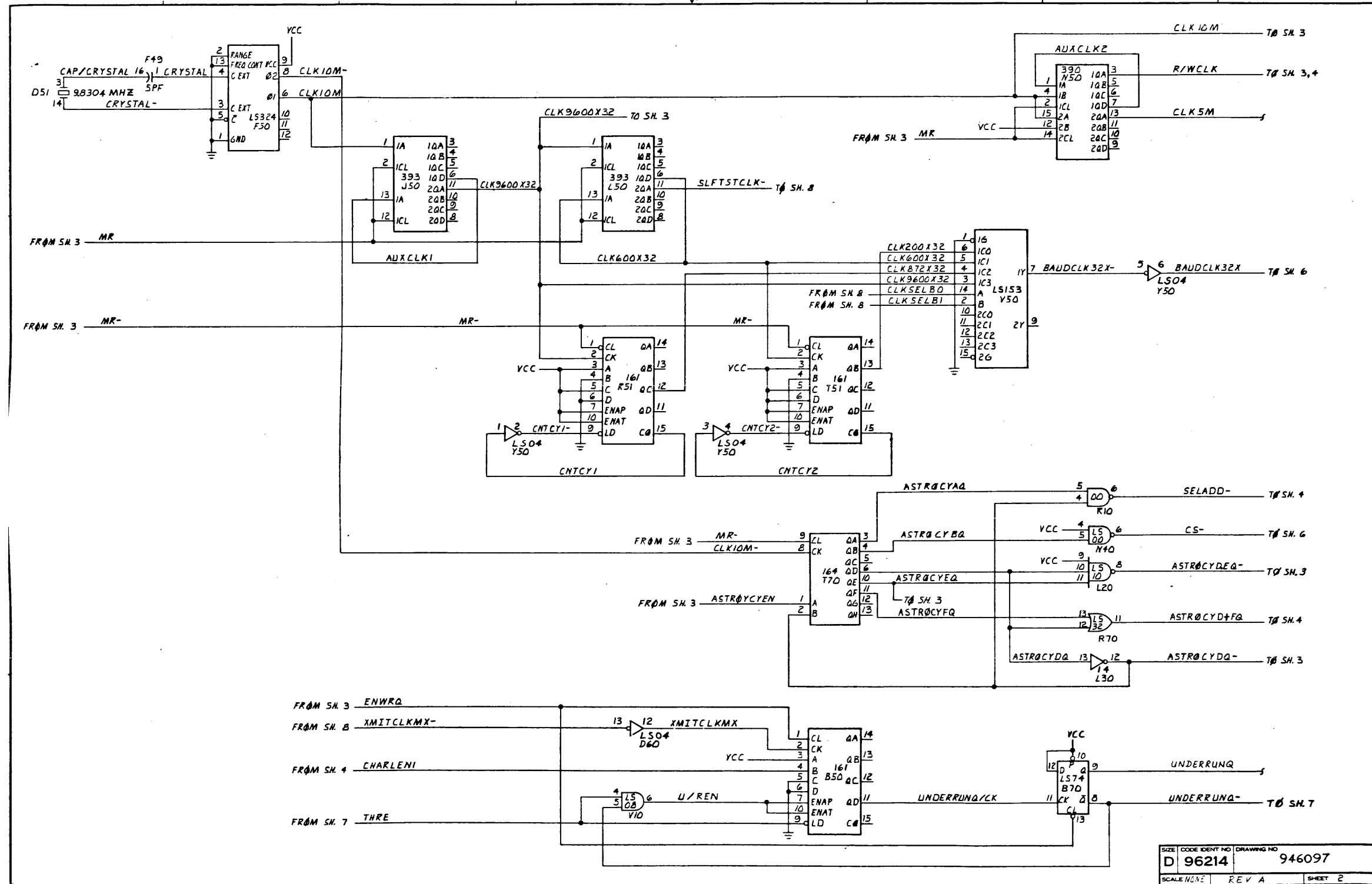


OO AND 14 = DEVICE TYPE
 4, 5 AND 6 = PIN NUMBERS
 RIO AND L30 = LOCATION; FIRST LETTER DENOTES COLUMN, SECOND AND THIRD DIGITS DENOTE ROW - PIN 1 OF IC IS LOCATED AT THE INTERSECTION OF COLUMN AND ROW.
 5. ALL RESISTORS ARE 1/4 WATT, 1%.

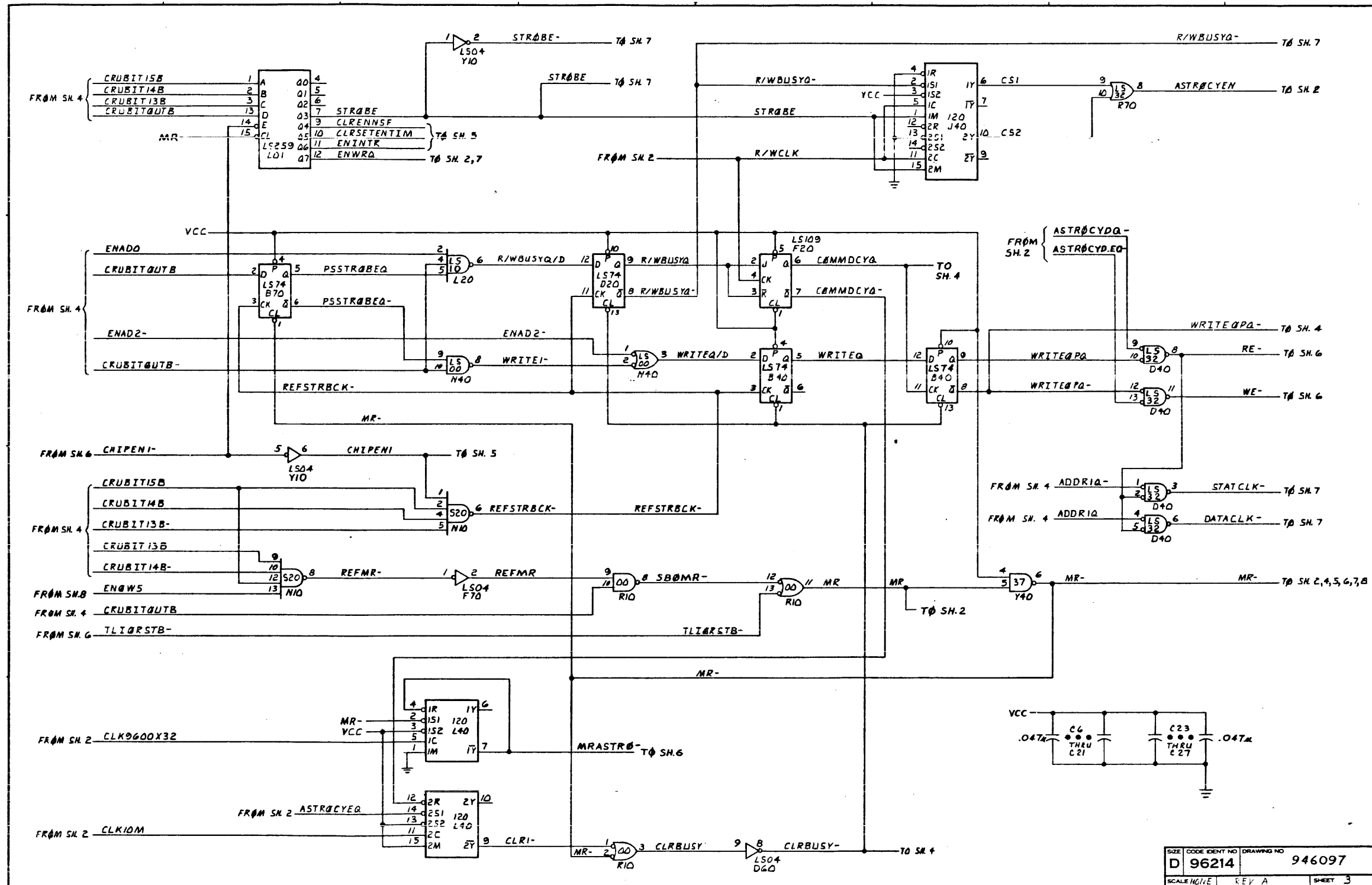
REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
2		945421-9703	4/20/76

REV STATUS	REV	A	A	A	A	A	A	A
OF SHEETS	SHEET	1	2	3	4	5	6	7

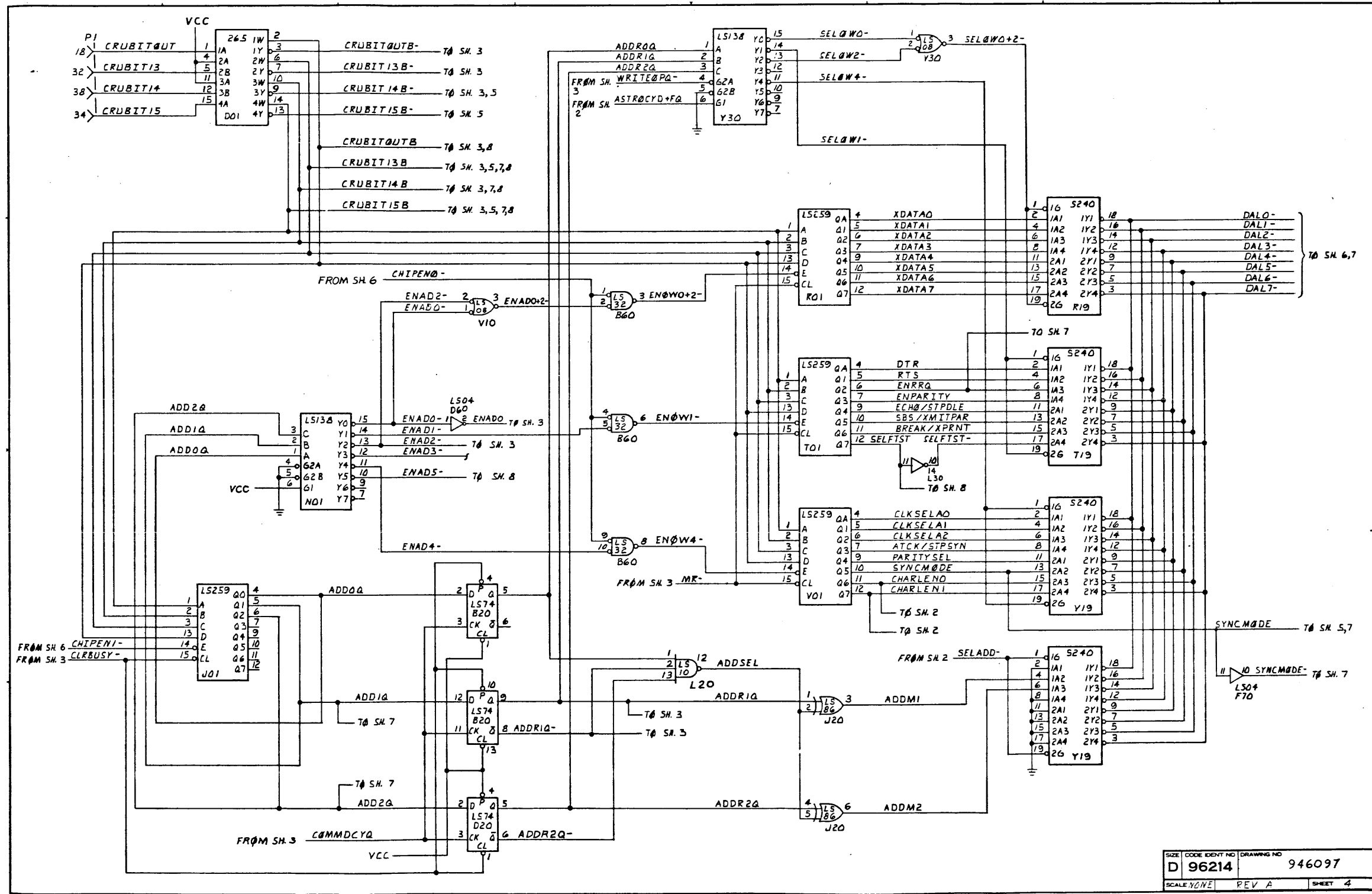
-2	-1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST						
UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100				DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02		
HOLE TOLERANCE .013 +.004 THRU -.001 .125 +.005 THRU -.001 .250 +.005 THRU -.001 .501 +.005 THRU -.010 .750 +.005 THRU -.010 1.000 +.005 THRU -.010 2.000 +.005 THRU -.010				DATE DWN R. Rupp 4/20/76 CHK C. Keeler 4-23-76 ENGR J. H. ... 4-27-76 DRA ... APP R. J. ... 4/27/76 CONTR NO DESIGN ACTIVITY RELEASE ... 4/27/76		
APPLICATION NEXT ASSY USED ON				TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas LOGIC DIAGRAM COMM. I/F MODULE - WW SIZE D CODE IDENT NO 96214 DRAWING NO 946097 SCALE: 2" = 1" SHEET 1 OF 8		



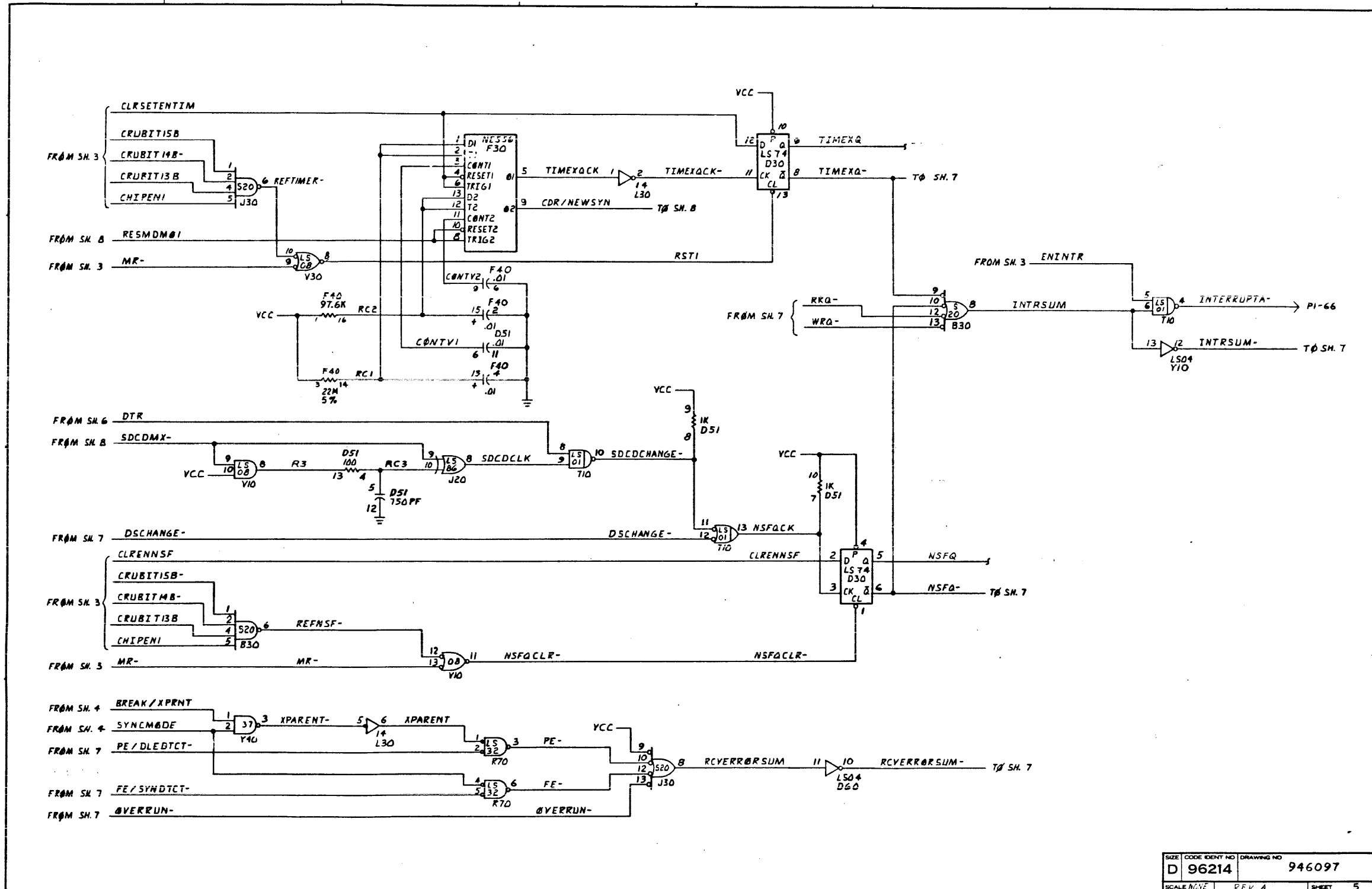
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946097
SCALE: NONE	REV A	SHEET 2



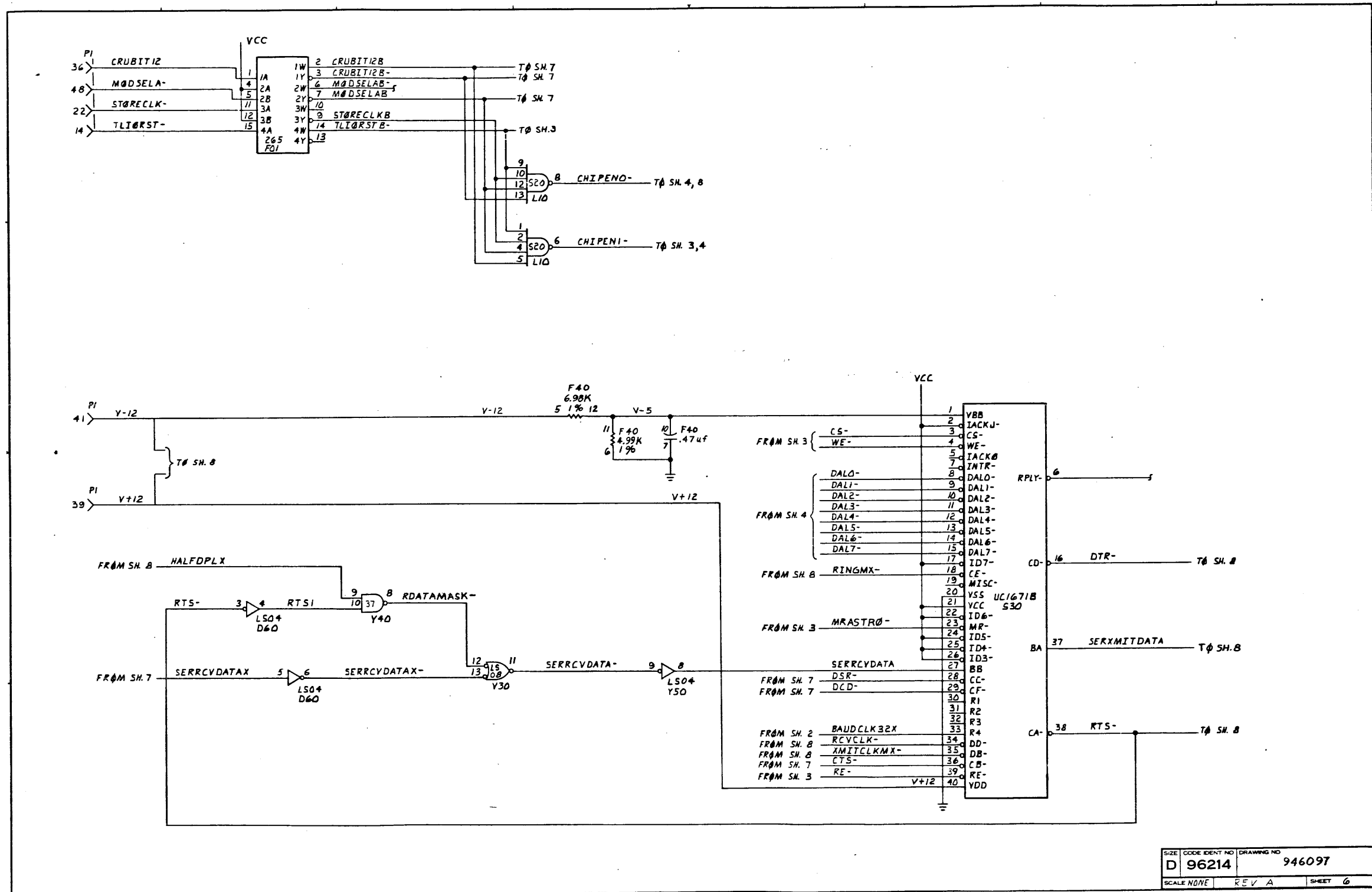
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946097
SCALE NOTE	REV A	SHEET 3



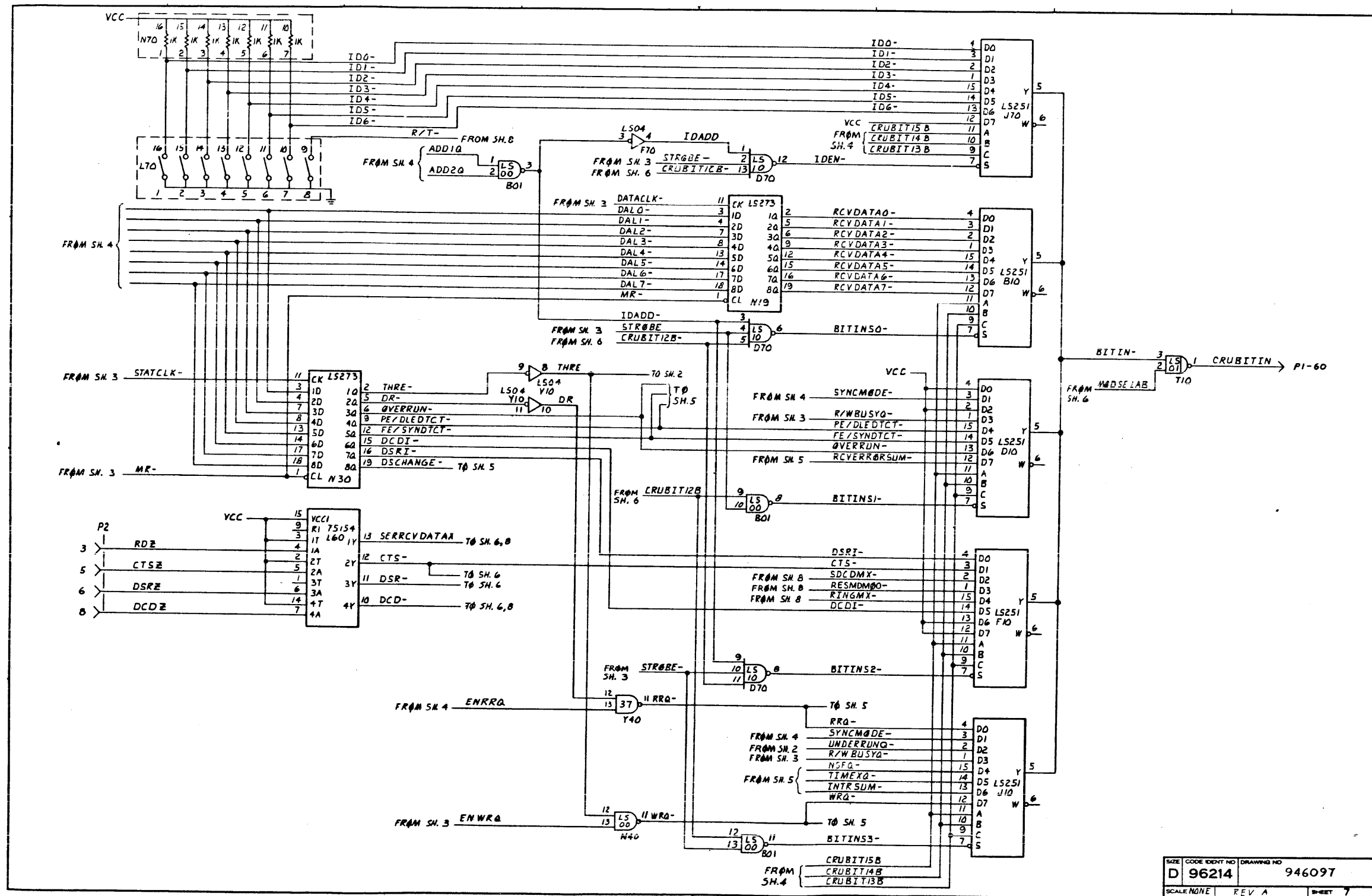
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946097
SCALE	1/16"	REV A
		SHEET 4

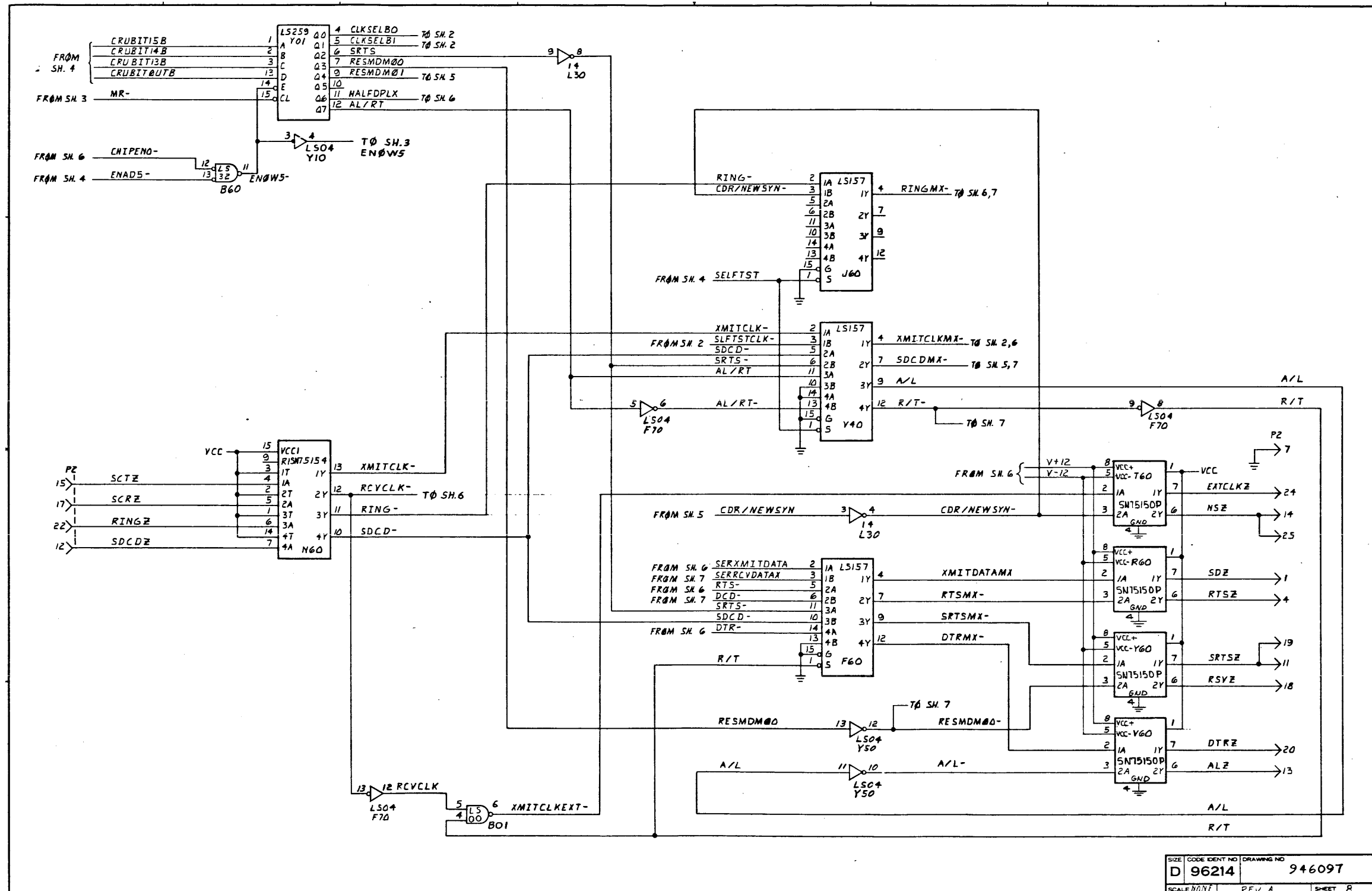


SIZE	CODE IDENT NO	DRAWING NO
D	96214	946097
SCALE 10/2	REV A	SHEET 5



SIZE	CODE IDENT NO	DRAWING NO
D	96214	946097
SCALE NONE	REV A	SHEET 6





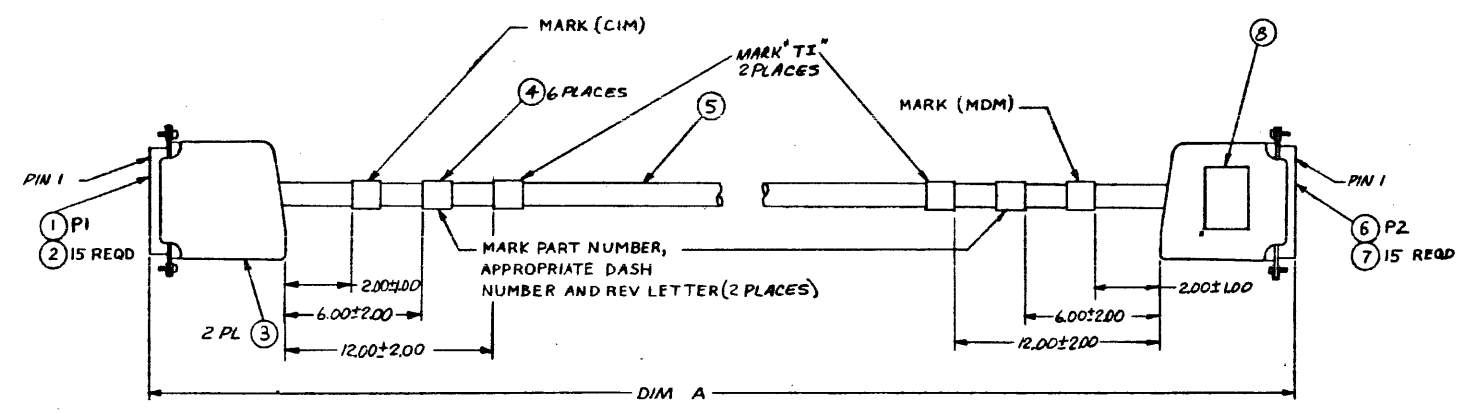
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946097
SCALE	NONE	PEV A SHEET B

Communications Interface Module to External Model

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION START STATION	COMPONENT CONNECTION FINISH STATION	REMARKS	ITEM NO.
1	WIRE-BLACK	AR	XMIT DATA	PI-2	P2-2		5
2	WHITE	↑	REC DATA	PI-3	P2-3		↑
3	RED	↑	REQ-TO-SEND	PI-4	P2-4		↑
4	GREEN	↑	CLR-TO-SEND	PI-5	P2-5		↑
5	ORANGE	↑	DATA SET RPY	PI-6	P2-6		↑
6	BLUE	↑	SIGNAL GND	PI-7	P2-7		
7	WHT/BLK	↑	CARRIER DET	PI-8	P2-8		
8	RED/BLK	↑	SRTS	PI-11	P2-11		
9	GRN/BLK	↑	SCD	PI-12	P2-12		
10	ORN/BLK	↑	NEW SYNC	PI-14	P2-14		
11	BLU/BLK	↓	XMIT CLK	PI-15	P2-15		5
12	BLK/WHT	↓	REC CLK	PI-17	P2-17		
13	RED/WHT	↓	DTR	PI-20	P2-20		
14	GRN/WHT	↓	RING	PI-22	P2-22		
15	WIRE-BLU/WHT	AR	XMIT CLK EXT	PI-24	P2-24		5

NOTES: UNLESS OTHERWISE SPECIFIED
 1 ITEM 101 IN -0001 LM CONSISTS OF BULK CABLE ASSEMBLY MATERIAL

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN 419530 (D) 4. Gaps (1) REVISED PER EXT ENGRS CHANGE (2) REVISED LM-1-1-2; ITEM QTY WAS 30; ADDED ITEM 8	9-3-76	JLB
B		CN 419580 (2) (1) (1) (1) -0001 & 0002 LM ITEM 7 WAS 539430-0006 AND ITEM 2 WAS 539430-0005	1-9-78	J. R. B.
C		CN 428556 (C) G. Muller (1) ADDED ITEM 9 TO -0001 & -0002 LM	1-23-78	JLB
D		CN 431565 (C) D. (1) CREATED -5001 LM (2) ADDED LM ITEM 101 TO -0001 (3) ADDED FLAG NOTE 1 (4) ADDED PART NO. BLOCK	9-10-79	E. W. G.



PART NUMBER	DESCRIPTION
946117-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001
946117-0002	CABLE ASSY. COMM I/F MOD TO EXT MODEM 10
946117-0001	CABLE ASSY. COMM I/F MOD TO EXT MODEM 30

946117-0002	120.00 ± 6.00
946117-0001	360.00 ± 6.00
PART NUMBER	DIM A

PROCESSES:
 1. MARK PER F-100, METHOD VII,
 CLASS B, COLOR BLACK, TYPE 6

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED	DATE	DATE
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES	3/17/76	3/18/76
CONCENTRICITY MACHINED DIAMETERS .010 FR	TOLERANCES ANGLES ±11		
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	3 PLACE DECIMALS ±.010		
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	2 PLACE DECIMALS ±.02		
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			
HOLE TOLERANCE			
.013 ±.004	126		
.015 ±.004	THRU -.003		
.020 ±.004	THRU -.001		
.030 ±.004	THRU -.001		
.040 ±.004	THRU -.001		
.050 ±.004	THRU -.001		
.060 ±.004	THRU -.001		
.070 ±.004	THRU -.001		
.080 ±.004	THRU -.001		
.090 ±.004	THRU -.001		
.100 ±.004	THRU -.001		
.110 ±.004	THRU -.001		
.120 ±.004	THRU -.001		
.130 ±.004	THRU -.001		
.140 ±.004	THRU -.001		
.150 ±.004	THRU -.001		
.160 ±.004	THRU -.001		
.170 ±.004	THRU -.001		
.180 ±.004	THRU -.001		
.190 ±.004	THRU -.001		
.200 ±.004	THRU -.001		
.210 ±.004	THRU -.001		
.220 ±.004	THRU -.001		
.230 ±.004	THRU -.001		
.240 ±.004	THRU -.001		
.250 ±.004	THRU -.001		
.260 ±.004	THRU -.001		
.270 ±.004	THRU -.001		
.280 ±.004	THRU -.001		
.290 ±.004	THRU -.001		
.300 ±.004	THRU -.001		
.310 ±.004	THRU -.001		
.320 ±.004	THRU -.001		
.330 ±.004	THRU -.001		
.340 ±.004	THRU -.001		
.350 ±.004	THRU -.001		
.360 ±.004	THRU -.001		
.370 ±.004	THRU -.001		
.380 ±.004	THRU -.001		
.390 ±.004	THRU -.001		
.400 ±.004	THRU -.001		
.410 ±.004	THRU -.001		
.420 ±.004	THRU -.001		
.430 ±.004	THRU -.001		
.440 ±.004	THRU -.001		
.450 ±.004	THRU -.001		
.460 ±.004	THRU -.001		
.470 ±.004	THRU -.001		
.480 ±.004	THRU -.001		
.490 ±.004	THRU -.001		
.500 ±.004	THRU -.001		
.510 ±.004	THRU -.001		
.520 ±.004	THRU -.001		
.530 ±.004	THRU -.001		
.540 ±.004	THRU -.001		
.550 ±.004	THRU -.001		
.560 ±.004	THRU -.001		
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.590 ±.004	THRU -.001		
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.610 ±.004	THRU -.001		
.620 ±.004	THRU -.001		
.630 ±.004	THRU -.001		
.640 ±.004	THRU -.001		
.650 ±.004	THRU -.001		
.660 ±.004	THRU -.001		
.670 ±.004	THRU -.001		
.680 ±.004	THRU -.001		
.690 ±.004	THRU -.001		
.700 ±.004	THRU -.001		
.710 ±.004	THRU -.001		
.720 ±.004	THRU -.001		
.730 ±.004	THRU -.001		
.740 ±.004	THRU -.001		
.750 ±.004	THRU -.001		
.760 ±.004	THRU -.001		
.770 ±.004	THRU -.001		
.780 ±.004	THRU -.001		
.790 ±.004	THRU -.001		
.800 ±.004	THRU -.001		
.810 ±.004	THRU -.001		
.820 ±.004	THRU -.001		
.830 ±.004	THRU -.001		
.840 ±.004	THRU -.001		
.850 ±.004	THRU -.001		
.860 ±.004	THRU -.001		
.870 ±.004	THRU -.001		
.880 ±.004	THRU -.001		
.890 ±.004	THRU -.001		
.900 ±.004	THRU -.001		
.910 ±.004	THRU -.001		
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.930 ±.004	THRU -.001		
.940 ±.004	THRU -.001		
.950 ±.004	THRU -.001		
.960 ±.004	THRU -.001		
.970 ±.004	THRU -.001		
.980 ±.004	THRU -.001		
.990 ±.004	THRU -.001		
1.000 ±.004	THRU -.001		

TEXAS INSTRUMENTS
 Equipment Group Dallas, Texas

CABLE ASSEMBLY, COMMUNICATIONS INTERFACE MODULE TO EXTERNAL MODEM

SIZE CODE IDENT NO DRAWING NO
 D 96214 946117

DESIGN ACTIVITY RELEASE

SCALE NONE

SHEET 1 OF 1

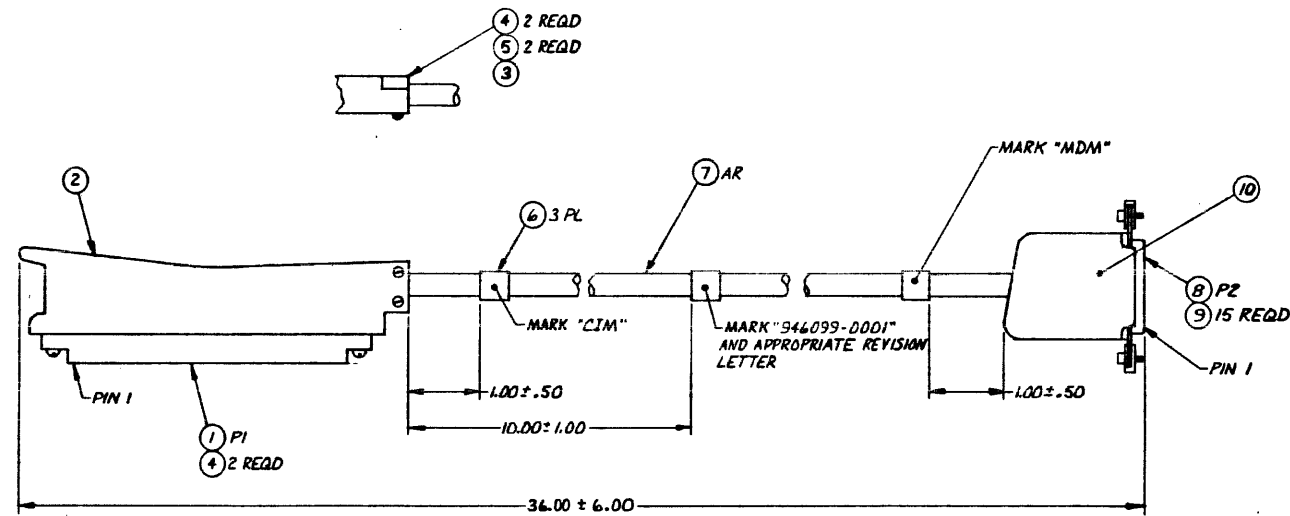
TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946117-0001		REV D		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	FA		0539409-0706	CONNECTOR, RCPT 25 PINS	AMP -205207-1						
0001A					P1							
0003	00002.000	FA		0539903-0001	HOOD, CONN 25 PIN WITH RETAINERS	AMP - 206478-3						
0006	00001.000	EA		7539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1						
0006A					P2							
0008	00001.000	FA		0962571-0005	PLATE, ID, FDP CABLE							
0009	REF	FA		0941916-9901	TEST PROCEDURE, OMNI INTERFACE NO. 2							
0101	00001.000	EA		0946117-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
			J.R. 8-3-79				CABLE ASSY, COMM I/F MOD TO EXT MODEM 30					
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
							7510	LM0946117-0001		D		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946117-0002		REV D		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	FA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1						
0001A					P1							
0002	00015.000	FA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST						
0003	00002.000	FA		0539903-0001	HOOD, CONN 25 PIN WITH RETAINERS	AMP - 206478-3						
0004	00006.000	FA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98						
0005	00010.000	FT		0972444-0002	CABLE, 15COND 22AWG UL LISTED							
0006	00001.000	FA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1						
0006A					P2							
0007	00015.000	FA		0539430-0004	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST						
0008	00001.000	EA		0962571-0005	PLATE, ID, FDP CABLE							
0009	REF	FA		0941916-9901	TEST PROCEDURE, OMNI INTERFACE NO. 2							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
							CABLE ASSY, COMM I/F MOD TO EXT MODEM 10					
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM0946117-0002		D		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946117-5001		REV D		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0002	00015.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205201-3 ST						
0004	00006.000	FA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98						
0005	00010.000	FT		0972444-0002	CABLE, 15COND 22AWG UL LISTED							
0007	00015.000	EA		0539430-0004	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
							BULK CABLE ASSEMBLY MATERIAL FOR -0001					
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM0946117-5001		D		

LINE NO	DESCRIPTION	TOTAL LENGTH	START POSITION	FINISH POSITION	COMPONENT CONNECTION FOR P1 STATION	COMPONENT CONNECTION FOR P2 STATION	REMARKS	P. WITH NO
1	BLK	AR			P1-1	P2-2	XMIT DATA	7
2	WHT	↑			P1-3	P2-3	REC DATA	
3	RED				P1-4	P2-4	REQ-TO-SEND	
4	GRN				P1-5	P2-5	CLR-TO-SEND	
5	ORN				P1-6	P2-6	DATA-SET-RDY	
6	BLUE				P1-7	P2-7	SIGNAL GND	
7	WHT/BLK				P1-8	P2-8	CARRIER DET	
8	RED/BLK				P1-11	P2-11	SRTS	
9	GRN/BLK				P1-12	P2-12	SCD	
10	ORN/BLK				P1-14	P2-14	NEWY SYNC	
11	BLU/BLK				P1-15	P2-15	XMIT CLK	
12	BLK/WHT				P1-17	P2-17	REC CLK	
13	RED/WHT				P1-20	P2-20	DTR	
14	GRN/WHT				P1-22	P2-22	RING	
15	BLU/WHT	AR			P1-24	P2-24	XMIT CLK EXT	7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN 430739 (CIS) Dodson 11/17/75 9 RW WAS	12-22-77	J. R. R.
		539430-6006		



PROCESSES:
 1. MARK PER F-100, METHOD VII, CLASS 12, COLOR BLACK, TYPE 6
 2. SOLDER PER F-127, METHOD I

UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS AND SHARP EDGES		
CONCENTRICITY MACHINED		
DIAMETERS .010 PIR		
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING		
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		
HOLE TOLERANCE		
.013 THRU .004	.125 THRU .005	.251 THRU .006
.125 THRU .001	.250 THRU .001	.500 THRU .001
.501 THRU .008	.751 THRU .010	1.001 THRU .012
.750 THRU .001	1.000 THRU .001	2.000 THRU .001

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES	
ANGLES ±1°	
3 PLACE DECIMALS ±.010	
2 PLACE DECIMALS ±.02	

PARTS LIST	
DWN: S. Dodson 4-12-76	DATE
C. K. 4/20/76	ENGR
4/20/76	ENGR
4/20/76	ENGR
4/20/76	APD
4/20/76	CONTR NO
DESIGN ACTIVITY RELEASE	DATE
4/20/76	
4/20/76	

TEXAS INSTRUMENTS
 INCORPORATED
 Equipment Group Dallas, Texas

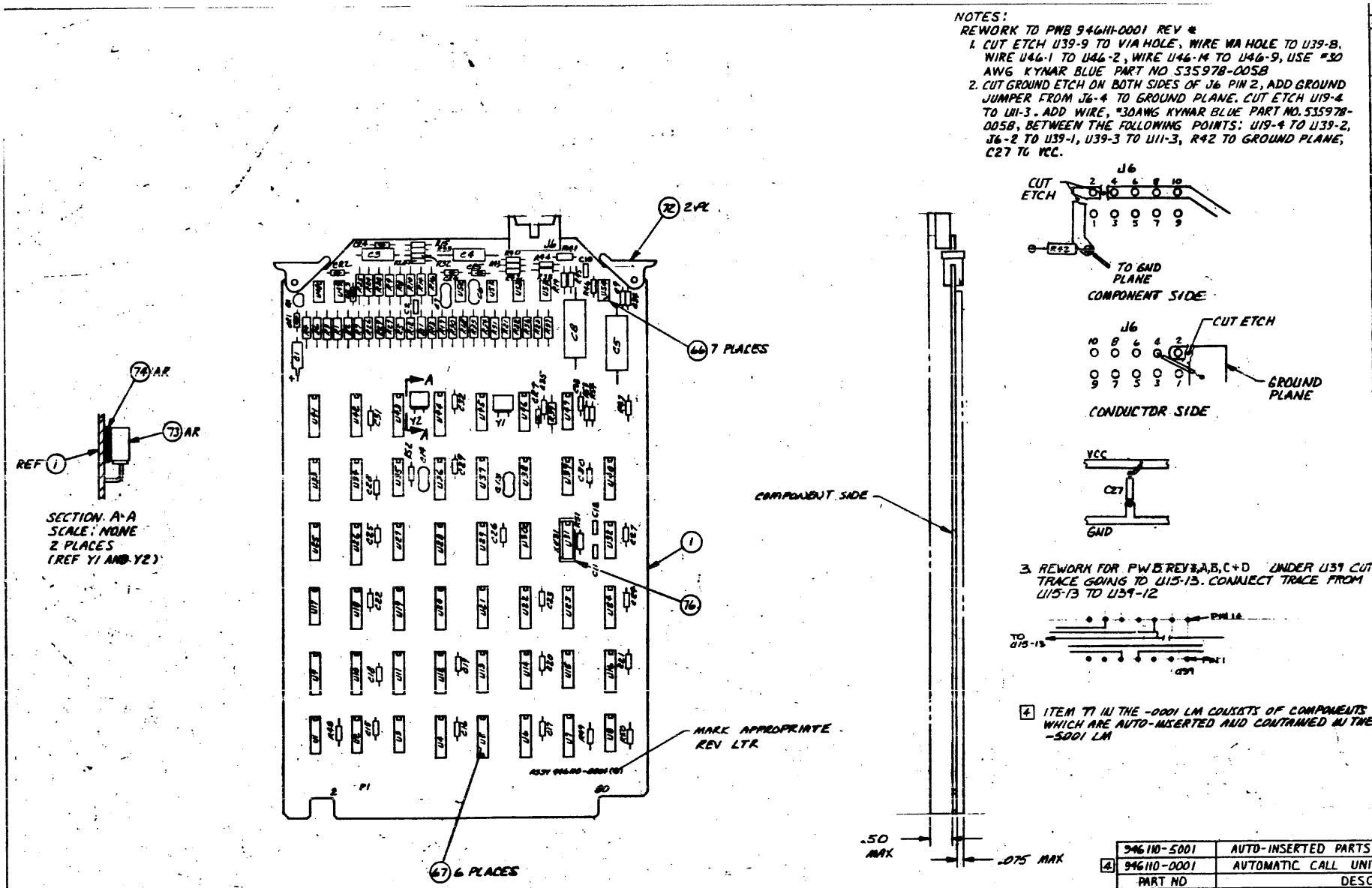
CABLE ASSEMBLY,
 COMMUNICATIONS INTERFACE,
 WW BOARD ADAPTER

SIZE CODE IDENT NO DRAWING NO
 D 96214 946099

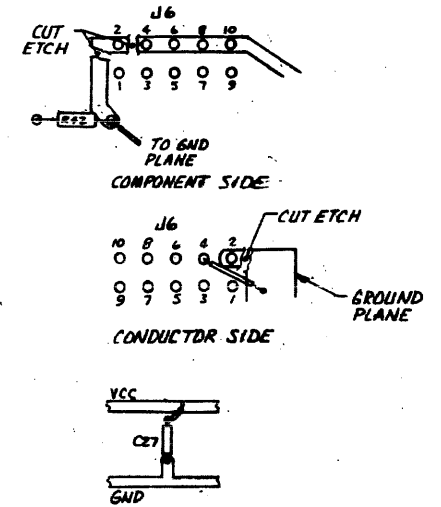
SCALE NONE SHEET

ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		0231447-0800	CONNECTOR, PRINTED CIRCUIT BOARD EDGE	005574- SEE DRAWING
0001A					P1	
0002	00001.000	EA		0214080-0001	CONNECTOR-COVER	
0003	00001.000	EA		0214081-0001	CLAMP	
0004	00004.000	EA		0972988-0017	SCREW 4-40 X .500 PAN HEAD CRES	
0005	00002.000	EA		0416622-0011	WASHER #4 FLAT	QPL - AN960C4L
0006	00003.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98
0007	00003.000	FT		0972444-0002	CABLE, 15COND 22AWG UL LISTED	
0008	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1
0008A					P2	
0009	00015.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205202-2 ST
0010	00001.000	EA		0539903-0001	HOOD, CONN 25 PIN WITH RETAINERS	AMP - 206478-3

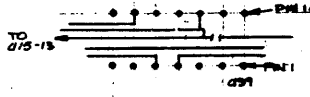
DATE	DATE	DATE	DATE	DATE	DATE
	12-14-77				
DRAPTSMAN	CEO, DRAFTSMAN	DESIGN ENGINEER	TITLE	CBL ASSY, COMM I/F MW 80 ADAPTER	
DATE	DATE	DATE	DATE	DATE	DATE
				7524	
APPRO. MFG.	APPRO. PROJECT ENGINEER	RELEASED	PROJECT NO.	PART NUMBER	REV
				LM0946099-0001	A



NOTES:
 REWORK TO PNB 94611-0001 REV #
 1. CUT ETCH U39-9 TO VIA HOLE, WIRE VIA HOLE TO U39-8, WIRE U46-1 TO U46-2, WIRE U46-4 TO U46-9, USE #30 AWG KYNAR BLUE PART NO 535978-0058
 2. CUT GROUND ETCH ON BOTH SIDES OF J6 PIN 2, ADD GROUND JUMPER FROM J6-4 TO GROUND PLANE, CUT ETCH U19-4 TO U11-3. ADD WIRE, #30AWG KYNAR BLUE PART NO. 535978-0058, BETWEEN THE FOLLOWING POINTS: U19-4 TO U39-2, J6-2 TO U39-1, U39-3 TO U11-3, R42 TO GROUND PLANE, C27 TO VCC.



3. REWORK FOR PWB REV #A,B,C+D UNDER U39 CUT TRACE GOING TO U15-13. CONNECT TRACE FROM U15-13 TO U39-12



4. ITEM 71 IN THE -0001 LM CONSISTS OF COMPONENTS WHICH ARE AUTO-INSERTED AND CONTAINED IN THE -5001 LM

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN417301 (C) 2.7mm (1) UPDATED REV LEVEL BLOCK (2) ITEM 37 WAS 972759-0021	9-18-76	J.R.P.
B		CN419539 (D) 2.7mm (ADDED) TEST PROCEDURE (E) UPDATED REV LEVEL BLOCK	10-19-76	J.R.P.
C		CN418219 (B) 2.7mm (1) UPDATED REV LEVEL BLOCK (2) ITEM 45 WAS 539374-0354 (3) QUANTITY OF ITEM 47 WAS 4, REF DES R25 WAS DELETED (4) ADDED ITEM 75, PNB 972946-0075	10-19-76	J.R.P.
D		CN418220 (C) 2.7mm (1) REVISED PICTORIAL OF EJECTOR (2) UPDATED REV LEVEL BLOCK	10-19-76	J.R.P.
E		CN417850 (B) R.P. (1) CHANGED ITEM 59 FROM 972946-0113 RES FIX 500K (2) UPDATED REV LEVEL BLOCK	1-17-77	J.R.P.
F		CN427049 (C) 3.7mm (1) UPDATED REV LEVEL BLOCK	1-17-77	J.R.P.
G		CN424341 (C) C.360 (1) LM, ITEM 61 QTY WAS 6. ITEM 61 A REF DES WAS XUS5 (2) LM, ADDED ITEM 76 (3) LM, ITEM 60 PN WAS 972900-7403 (4) ADDED NOTE 3 (5) DELETED XUS5 FROM PICTORIAL (6) ADDED SOCKET TO U31 (7) UPDATED REV LEVEL BLOCK	5-27-77	J.R.P.
H		CN420468 (C) R.P. (1) NOTE 3 WAS REWORK FOR PWB REV #A,B,C (2) UPDATED REV LEVEL BLOCK	6-16-77	J.R.P.
J		CN442560 (E) R.P. (1) UPDATED REV LEVEL BLOCK	9-27-78	J.R.P.
K		CN441357 (C) R.P. (1) ON-0001 LM, DELETED ITEM 1, 5 THRU 19, 24, 25, 26, 28 & ADDED ITEM 71 (2) CREATED -5001 LM (3) UPDATED REV LEVEL BLOCK	1-15-79	J.R.P.
L		CN44719 (C) MSL (1) REMOVED ITEM 28 FROM -5001 LM AND ADDED ITEM 28 TO -0001 LM (2) UPDATED REV LEVEL BLOCK	2-7-79	J.R.P.
M		CN441720 (C) MSL (1) REMOVED ITEM 5, 18 ONLY (2) ITEM 6 FROM -5001 LM AND ADDED BOTH ITEMS TO -0001 LM (2) UPDATED REV LEVEL BLOCK	2-7-79	J.R.P.
N		CN433518 (C) R.P. (1) -5001 LM ITEM 16 PN WAS 972688-1 (2) UPDATED REV LEVEL BLOCK	2-9-79	J.R.P.

REV LEVEL	TEST PROCEDURE (946113)	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	LOGIC DIAGRAM (946112-9901)	A	A	B	B	C	D	E	E	E	E	E	E	E	E
	PWB (946111-0001)	A	A	B	B	C	C	D	E	E	E	E	E	E	F
	ASSY (946110-0001)	A	A	B	C	D	E	F	G	H	J	K	L	M	N

PROCESSES:
 1. SOLDER PER F-127, METHOD I, AND FOR F-128
 2. MARK PER F-100, METHOD I, CLASS 1, HEIGHT .09, COLOR BLACK

946110-5001	AUTO-INSERTED PARTS LIST FOR 946110-0001
946110-0001	AUTOMATIC CALL UNIT
PART NO	DESCRIPTION

QTY	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCURMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED	DRAWINGS ARE IN INCHES	ANGLES ±1°
DIMENSIONS .010 PER	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ±.010	2 PLACE DECIMALS ±.02
INTERPRET DRAWINGS IN ACCORDANCE WITH MIL-STD-100			

DATE	BY	DESCRIPTION
8/13/76	J.R.P.	DESIGN
8/19/76	J.R.P.	DESIGN
8/20/76	J.R.P.	DESIGN
8/21/76	J.R.P.	DESIGN

SCALE	CODE IDENT NO	DRAWING NO
NONE	D 96214	946110

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946110-0001		REV N	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	0001.000	EA		0996242-0001	IC, LM 567CN TONE DECODER	NSC - LM567CN					
0002A					U53						
0003	0001.000	EA		0996033-0001	IC, TIMING DELAY NE556	TI - NE556					
0003A					U31						
0004	0005.000	EA		0972463-0001	NETWORK, SN72558P/MC1458P1 OP AMP	SEE - TI DRAWING					
0004A					U48 U49 U50 U51 U52						
0005	0001.000	EA		0972900-7400	NETWORK SN74LS00N	TI - SN74LS00N					
0005A					U8						
0006	0001.000	EA		0222222-7403	NETWORK SN7403N						
0006A					U1						
0020	0001.000	EA		0948601-0004	PROGRAMMED ROM-DIAL PULSE PROM (U5)						
0020A					U5						
0021	0001.000	EA		0948601-0001	PROGRAMMED ROM-MICRO COUNT DECODE (U34)						
0021A					U34						
0022	0001.000	EA		0948601-0002	PROGRAMMED ROM-DIGIT ADDRESS CODE (U21)						
0022A					U21						
0023	0001.000	EA		0948601-0003	PROGRAMMED ROM-TONE GEN PROM (U36)						
0023A					U36						
0027	0001.000	EA		0219401-2451	NETWORK, INTERFACE MIC SN75451						
0027A					U54						
DRAFTSMAN: <i>J. R. R...</i> DATE: 7-23-79 DESIGN ENGINEER: TITLE: AUTOMATIC CALL UNIT APPR. ENG. DATE: PROJECT NO. 7510 PART NUMBER: LM0946110-0001 REV: N											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946110-0001		REV N	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0028	0001.000	EA		0996243-0001	IC, MK 5006N TONE DIALER						
0028A					U44						
0029	0001.000	EA		0972943-0055	CAP FIX 1.00 MF 5% 200V NYLAR METALIZED	TRM - K663F					
0029A					C4						
0030	0001.000	EA		0972943-0039	X CAP. FIX. .047 MF 5% 200V NYLAR	TRM - K663F					
0030A					C3						
0032	0001.000	EA		0972965-0032	CAP, FIXED 470,000PF 10% 50V	OPL - 11015					
0032A					C2						
0033	0002.000	FA		0972943-0059	CAP FIX 2.00 MF 5% 200V NYLAR METALIZED	TRM - K663F					
0033A					C5 C8						
0034	0001.000	EA		0972924-0018	CAP FIX TANT SOLID 6.8 MFD 10% 35 VOLT	OPL - H39003/1-2304					
0034A					C1						
0035	0002.000	EA		0972927-0053	CAP FIX MICA .001 UF 100V 1% C6 C7	-CHN05E102FOA					
0035A											
0036	0003.000	EA		0972929-0415	CAP FIX CERAMIC .010 UF 10% 100 V	OPL - H39014/01-1415					
0036A					C9 C11 C12						
0037	0002.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, 500V, -20% C15 C16 C17 C18 C19 C20 C21						
0037A					C22 C23 C24 C25 C26 C27 C28						
0037B					C29 C30 C31 C32 C33 C34 C35						
0037C											
DRAFTSMAN: DATE: 7-23-79 DESIGN ENGINEER: TITLE: AUTOMATIC CALL UNIT APPR. ENG. DATE: PROJECT NO. 7510 PART NUMBER: LM0946110-0001 REV: N											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0946110-0001		REV N	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0038	0001.000	EA		0972927-0002	CAP FIX MICA 500V 5.0 PF +/- 0.5 PF	OPL - CHN05C050000					
0038A					C13						
0039	0001.000	EA		0972927-0006	CAP FIX MICA 500V 10.0 PF +/- 0.5 PF	OPL - CHN05C100000					
0039A					C14						
0040	0001.000	EA		0972929-0433	CAP FIX CERAMIC .100 UF 10% 50 V	OPL - H39014/01-1433					
0040A					C10						
0041	0007.000	EA		0539374-0481	RES FIX FILM 10.0K OHM 1% .25 WATT	COR - NC5					
0041A					R1 R9 R10 R21 R24 R26 R36						
0042	0008.000	EA		0539374-0577	RES, FIXED 100 K OHMS						
0042A					R4 R23 R27 R28 R29 R30 R40						
0042B					R5						
0043	0004.000	EA		0539374-0510	RES, FIXED 20.0 K OHMS						
0043A					R6 R7 R8 R13						
0044	0005.000	EA		0539374-0385	RES FIX FILM 1.00K OHM 1% .25 WATT	COR - NC5					
0044A					R3 R11 R12 R14 R51						
0045	0001.000	EA		0539370-0414	RES FIX FILM 2.00K OHM 1% .25 WATT	COR - NA55					
0045A					R2						
0046	0004.000	EA		0539374-0289	RES FIX FILM 100 OHM 1% .25 WATT	COR - NC5					
0046A					R16 R17 R39 R47						
0047	0003.000	EA		0539374-0414	RES FIX FILM 2.00K OHM 1% .25 WATT	COR - NC5					
DRAFTSMAN: DATE: 7-23-79 DESIGN ENGINEER: TITLE: AUTOMATIC CALL UNIT APPR. ENG. DATE: PROJECT NO. 7510 PART NUMBER: LM0946110-0001 REV: N											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0946110-0001		REV N	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047A					R31 R34 R37						
0048	0001.000	EA		0539374-0393	RES FIX FILM 1.21K OHM 1% .25 WATT	COR - NC5					
0048A					R22						
0049	0001.000	EA		0972946-0088	RES FIX 9.1K OHM 5% .25 W CARBON FILM	RDH - R-25					
0049A					R18						
0050	0002.000	EA		0972946-0129	RES FIX 470K OHM 5% .25 W CARBON FILM	RDH - R-25					
0050A					R32 R33						
0051	0001.000	EA		0972946-0050	RES FIX 240 OHM 5% .25 W CARBON FILM	RDH - R-25					
0051A					P38						
0052	0003.000	EA		0972946-0073	RES FIX 2.2K OHM 5% .25 W CARBON FILM	RDH - R-25					
0052A					R19 R43 R48						
0053	0003.000	FA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	RDH - R-25					
0053A					R49, R50, R45						
0054	0002.000	EA		0972946-0053	RES FIX 330 OHM 5% .25 W CARBON FILM	RDH - R-25					
0054A					R53 R54						
0055	0001.000	EA		0972976-0183	RES FIX COMP 1/4 W 10 MEGOHM 5%	QPL - RC07G106J5					
0055A					P52						
0056	0001.000	EA		0972946-0107	RES FIX 56 K OHM 5% .25 W CARBON FILM	RDH - R-25					
0056A					R20						
0057	0001.000	EA		0972227-0009	RES, VAR 5000 OHMS 2% 50 WATT	032997-3292W-1-502					
DRAFTSMAN: DATE: 7-23-79 DESIGN ENGINEER: TITLE: AUTOMATIC CALL UNIT APPR. ENG. DATE: PROJECT NO. 7510 PART NUMBER: LM0946110-0001 REV: N											

Automatic Call Unit

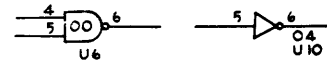
TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0946110-0001		REV N	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0057A				R46							
0058	00001.000	EA		0539374-0449	RES,4.64 K 1% R15						
0058A											
0059	00001.000	EA		0972946-0131	RES FIX 560K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0059A											
0060	00003.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0060A											
0061	00006.000	EA		0972932-0001	DIODE, 1N914B SWITCHING 75V PIV 75MA 4WS	TI	- 1N914B				
0061A											
0062	00001.000	EA		0972934-0001	DIODE, 1N746A 3-3 V 5% SIL VOLT REG	QPL	- 1N746A				
0062A											
0063	00001.000	EA		0972169-0002	TRANSISTOR, 2N5246 SILICON	TI	- 2N5246				
0063A											
0064	00001.000	EA		0226591-0003	CRYSTAL UNIT, QUARTZ-10.000 MHZ +.005%						
0064A											
0065	00001.000	FA		0972282-0009	CRYSTAL, QUARTZ, MED FREQUENCY 3.579 MHZ	ICN	- MC 18/U				
0065A											
0066	00007.000	EA		2210188-0001	SOCKET, LOW PROFILE, DIP, 3 CONT, 8 PINS	003612-DIL80P-108					
0066A											
0066B											
0066C											
0066D											
0066E											
0066F											
0066G											
0066H											
0066I											
0066J											
0066K											
0066L											
0066M											
0066N											
0066O											
0066P											
0066Q											
0066R											
0066S											
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0075											
0075A											
0076											
0076A											
0077											
DRAFTSMAN DATE CED: DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTOMATIC CALL UNIT APPD: JRG DATE APPD: PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0946110-0001 REV N											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/79		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0946110-0001		REV N	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0067A	00005.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 7 CONT, 16 PINS	003612-DIL816P-108					
0068	00001.000	EA		0972706-0001	CONNECTOR, PWB, 10P, RT. A, SDRTL, HDR, FLTCBL	015912-609-1002M					
0068A											
0069	REF	EA		0946112-9901	LOGIC DIAGRAM, AUTOMATIC CALL UNIT						
0070	REF	EA		0946113-9901	TEST PROC, AUTOMATIC CALL UNIT						
0071	PEF	EA		0946114-9901	SPEC, AUTOMATIC CALL UNIT						
0072	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0073	00000.080	FT		0417177-0223	SLEEVE, PVC .4500 DIA CLEAR .015 SMALL THK						
0074	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0075	00001.000	FA		0972946-0075	RES FIX 2.7K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0075A											
0076	00001.000	EA		2210188-0002	SOCKET, LOW PROFILE, DIP, 14 PINS	003612-DIL814P-108					
0076A											
0077	00001.000	EA		0946110-5001	AUTO-INSERTED PARTS LIST FOR 946110-0001						
DRAFTSMAN DATE CED: DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTOMATIC CALL UNIT APPD: JRG DATE APPD: PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0946110-0001 REV N											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946110-5001		REV N	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0946111-0001	PWB, AUTOMATIC CALL UNIT						
0005	00002.000	EA		0972908-7488	NETWORK SN74LS08N	TI	-SN74LS08N				
0005A											
0007	00003.000	EA		0972908-7404	NETWORK SN74LS04N						
0007A											
0008	00003.000	EA		0972749-0001	NETWORK, SN74LS08N						
0008A											
0009	00002.000	FA		0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N				
0009A											
0010	00001.000	EA		0972900-7112	NETWORK SN74LS112N	TI	-SN74LS112N				
0010A											
0011	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI	-SN74LS138N				
0011A											
0012	00003.000	EA		0222222-7161	NETWORK SN74161N						
0012A											
0013	00001.000	EA		0222222-7163	NETWORK SN74163N						
0013A											
0014	00003.000	EA		0972900-7174	NETWORK SN74LS174N						
0014A											
0015	00001.000	EA		0972913-0001	NETWORK SN74LS21M						
DRAFTSMAN DATE CED: DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 946110-0001 APPD: JRG DATE APPD: PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0946110-5001 REV N											

TEXAS INSTRUMENTS INCORPORATED		DATE 07/20/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0946110-5001		REV N	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0015A											
0016	00004.000	EA		0972648-0001	NETWORK SN74LS251N						
0016A											
0017	00002.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS299N	TI	-SN74LS299N				
0017A											
0018	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N				
0018A											
0019	00001.000	FA		0996032-0001	IC, OSCILLATOR, VOLTAGE-CONT SN74LS324N	TI	-SN74LS324N				
0019A											
0024	00001.000	EA		0972556-0001	NETWORK SN74367N	TI-	-SN74367N				
0024A											
0025	00002.000	EA		0972856-0001	NETWORK, SN74376N						
0025A											
0026	00005.000	FA		0996035-0001	IC, 4 BIT COUNTER SN74390	TI	-SN74390				
0026A											
DRAFTSMAN DATE CED: DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 946110-0001 APPD: JRG DATE APPD: PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0946110-5001 REV N											

- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



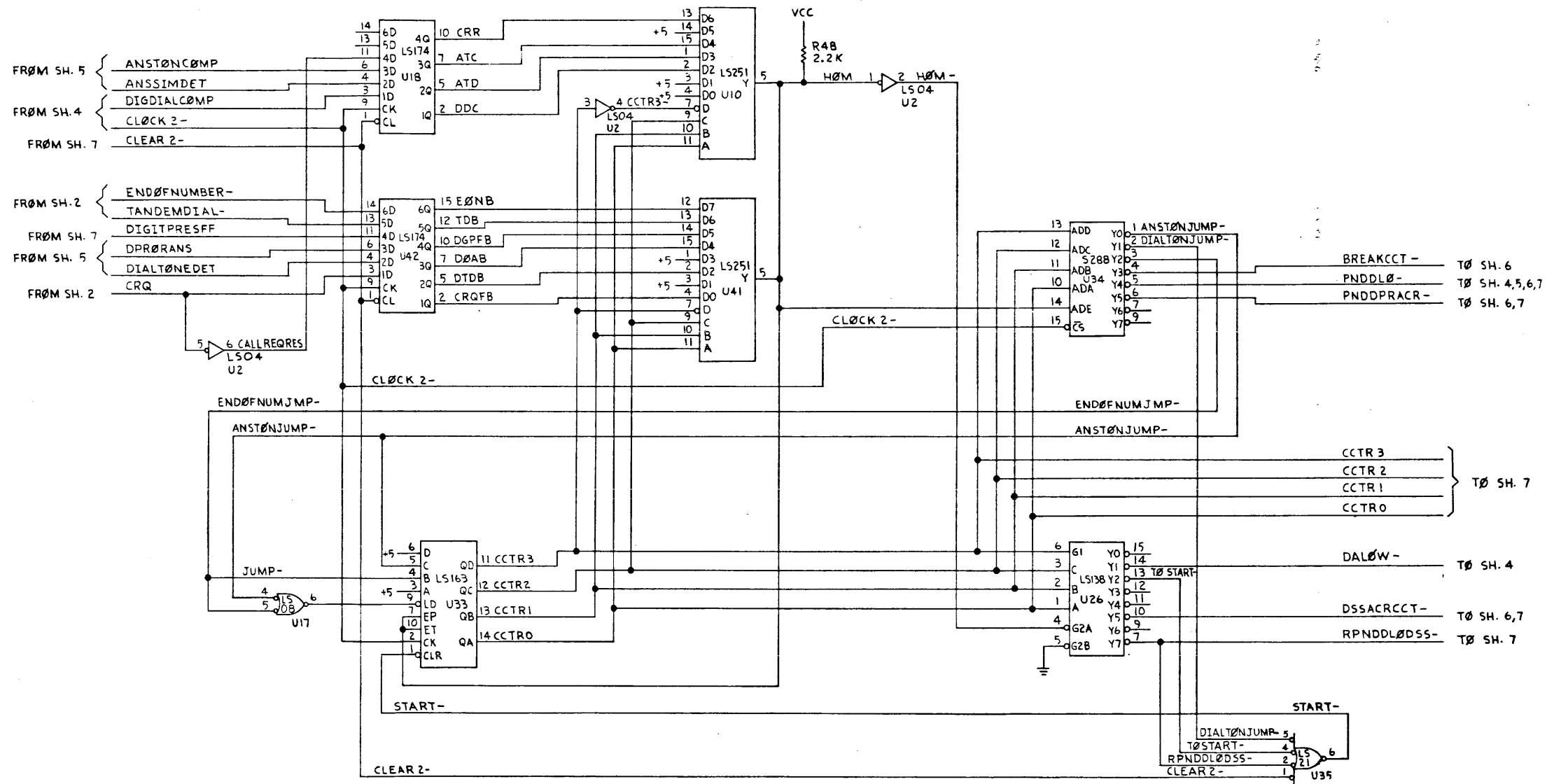
- OO AND O4 = DEVICE TYPE
- 4, 5 AND 6 = PIN NUMBERS
- U6 AND U10 = REFERENCE DESIGNATOR
- ALL RESISTORS 1/4 WATT, 5%.

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	Initial Issue	8-17-76	[Signature]
	B	Change to IC's	10-27-76	[Signature]
	C	Change to IC's	12-27-76	[Signature]
	D	Change to IC's	1-12-77	[Signature]

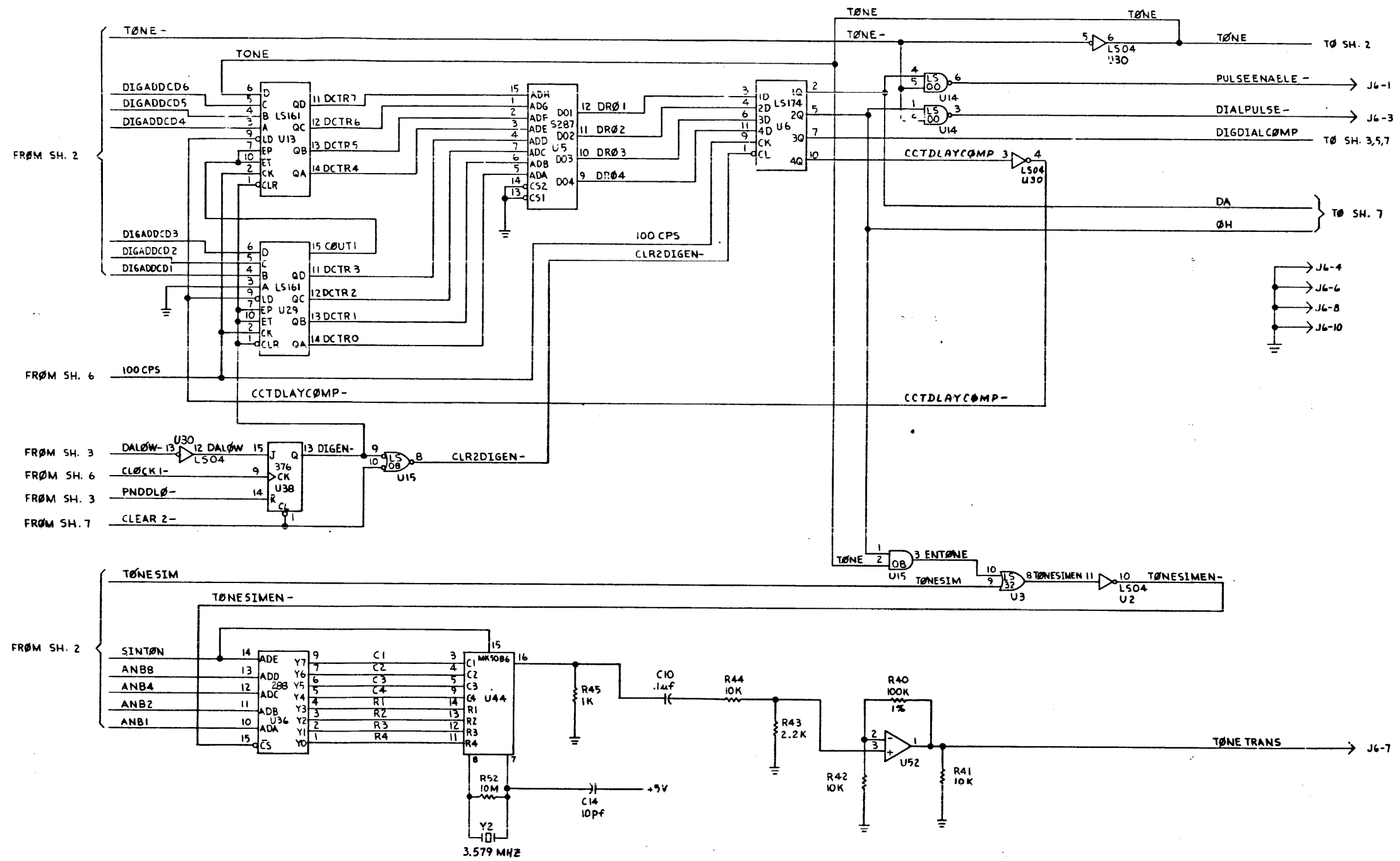
REV STATUS	REV	D	B	-	B	D	A	B
OF SHEETS	SHEET	1	2	3	4	5	6	7

2	1	ITEM	CODE	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
QTY	REQD	NO	IDENT			

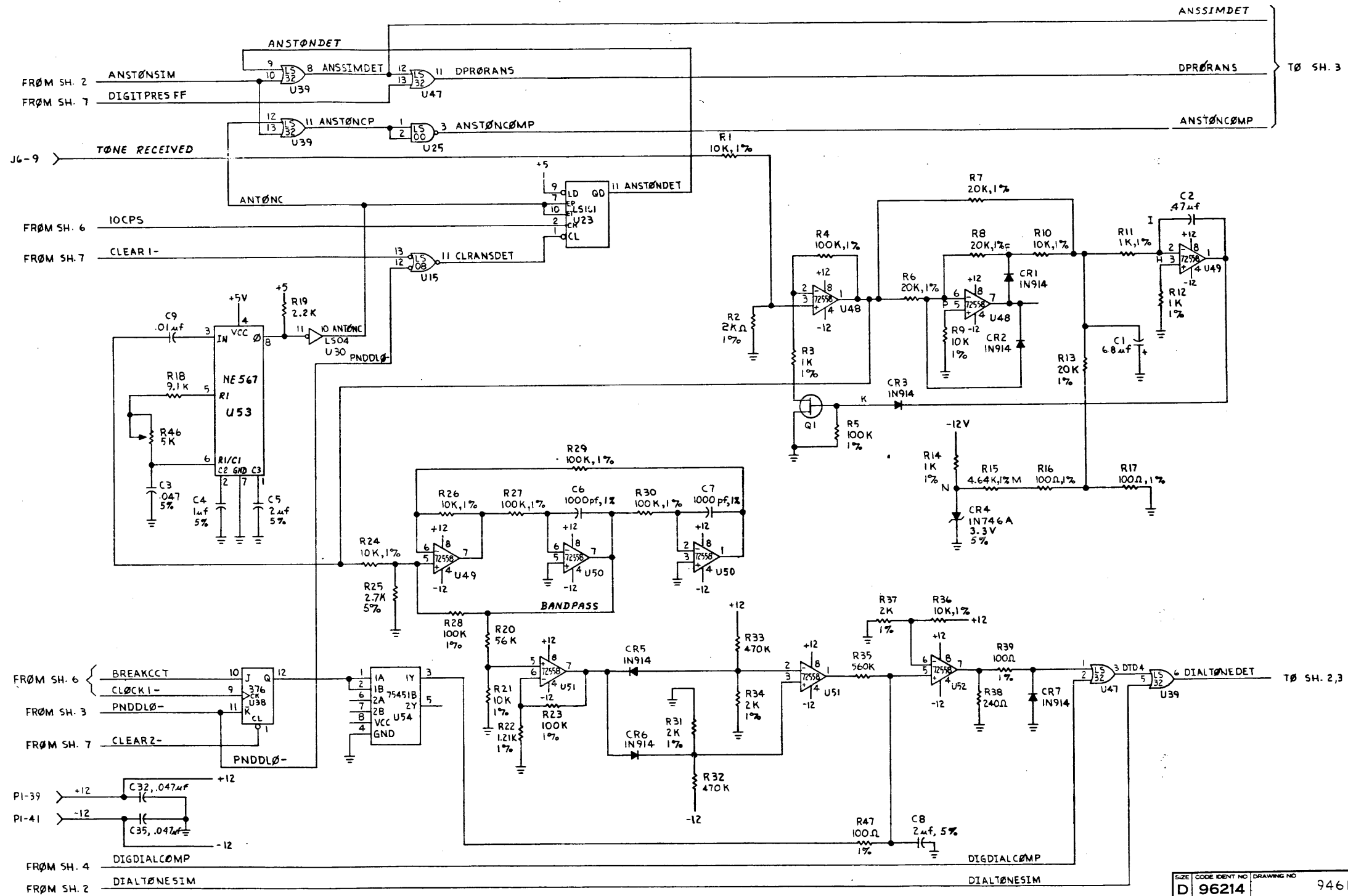
UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED		PARTS LIST											
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 FIR	DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	HOLE TOLERANCE	<table border="1"> <tr> <td>.013 - .004</td> <td>.126 - .008</td> <td>.251 - .006</td> </tr> <tr> <td>THRU - .001</td> <td>THRU - .001</td> <td>THRU - .001</td> </tr> <tr> <td></td> <td>250 - .001</td> <td>500 - .001</td> </tr> </table>	.013 - .004	.126 - .008	.251 - .006	THRU - .001	THRU - .001	THRU - .001		250 - .001	500 - .001
.013 - .004	.126 - .008	.251 - .006													
THRU - .001	THRU - .001	THRU - .001													
	250 - .001	500 - .001													
DESIGN ACTIVITY RELEASE	DATE	BY	DATE	TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas											
APPROVED	8-17-76	C. KEELER	8-17-76	LOGIC DIAGRAM, DETAILED AUTOMATIC CALL UNIT											
CONTR NO	946112	SIZE	CODE IDENT NO	D	96214										
DRAWING NO	946112	SCALE	SHEET	1	OF 7										



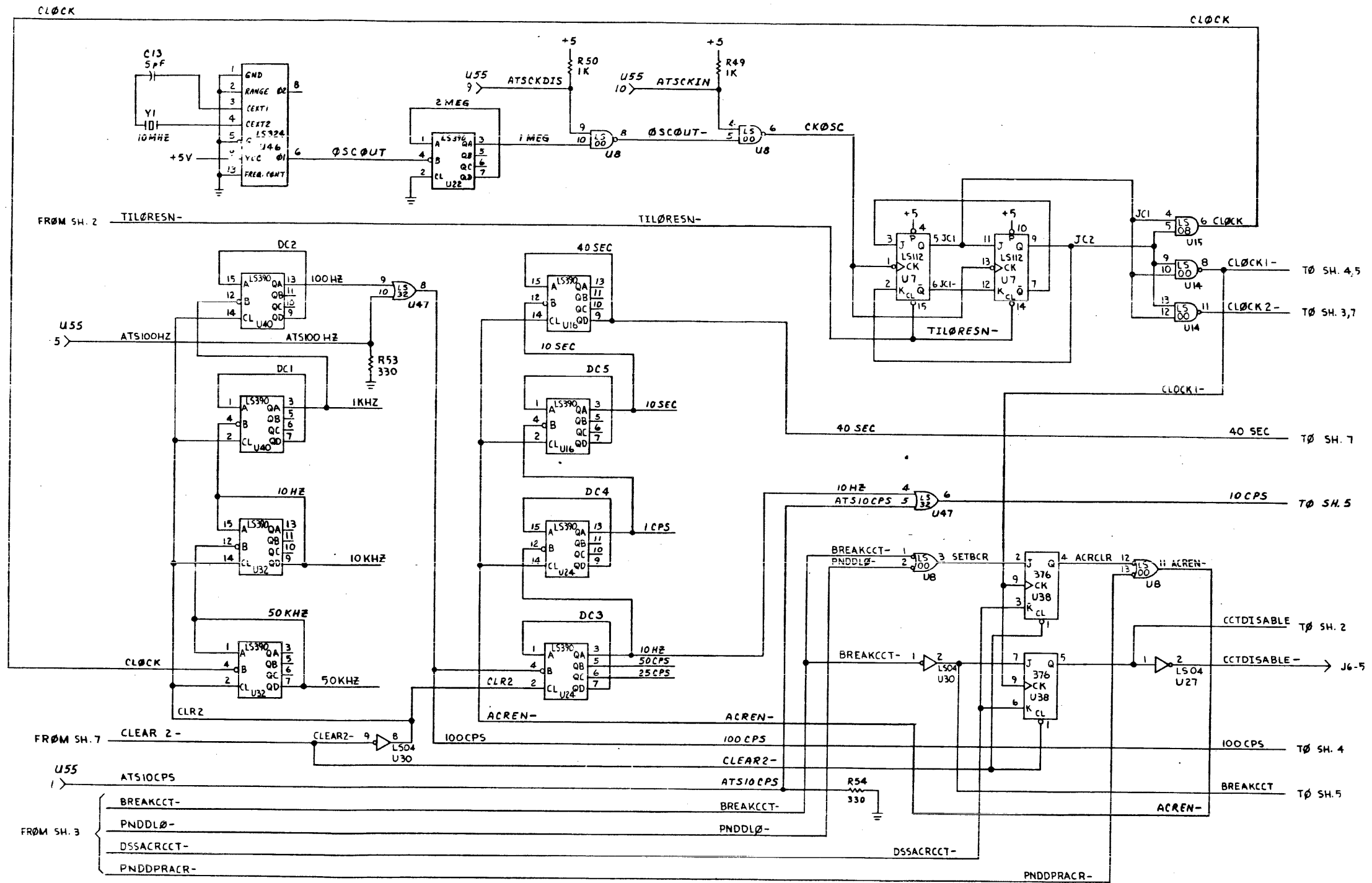
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946112
SCALE	SHEET 3	



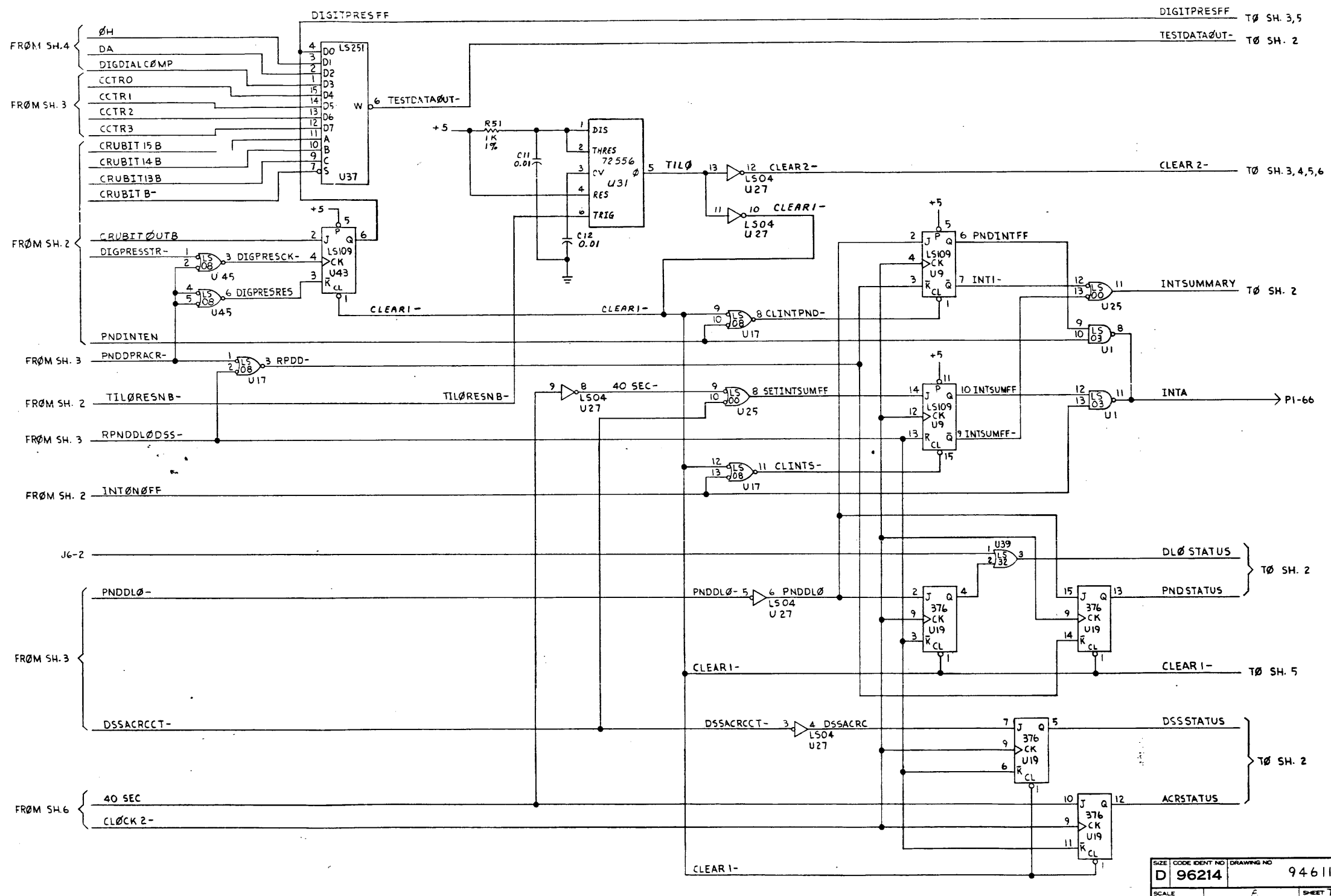
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946112
SCALE	Ø	SHEET 4



SIZE	CODE IDENT NO	DRAWING NO
D	96214	946112
SCALE		SHEET 5



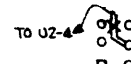
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946112
SCALE		SHEET 6



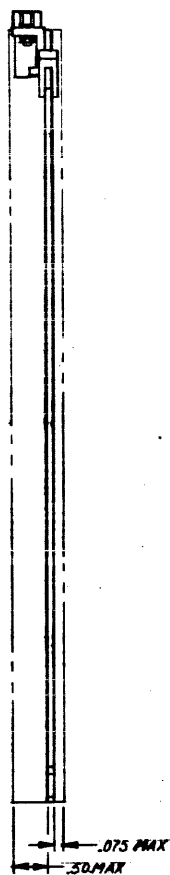
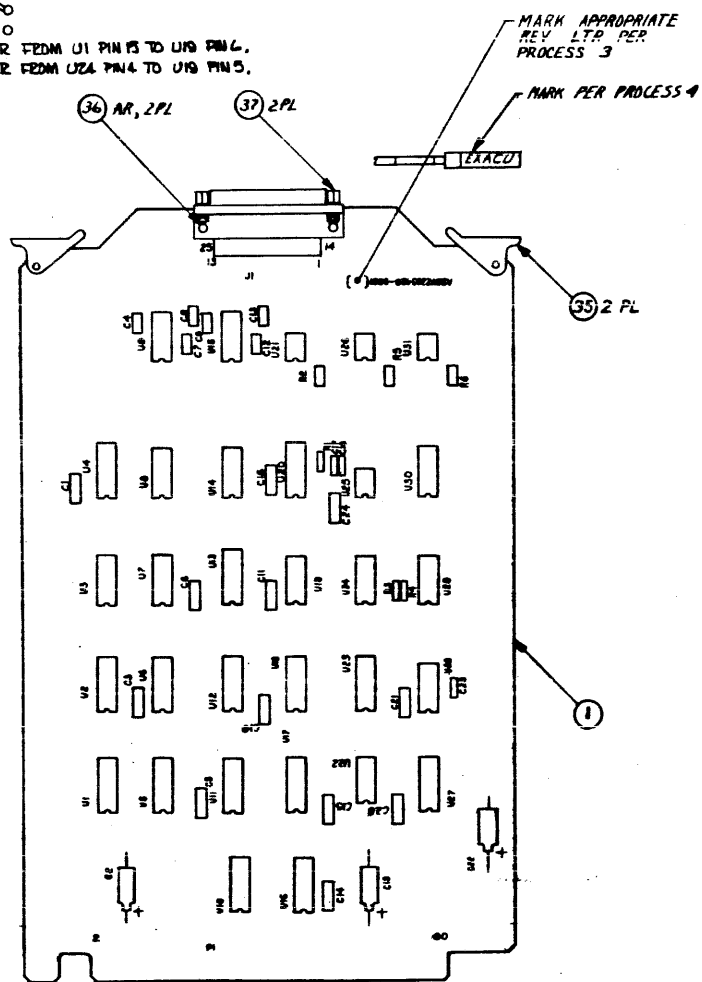
NOTES: UNLESS OTHERWISE SPECIFIED:

1. REWORK PROCEDURE FOR PWB 2263481-0001 REV # A :

- A. CUT ETCH BETWEEN U19 PIN 5 & U19 PIN 6.
- B. CUT ETCH BETWEEN U19 PIN 9 & U19 PIN 6.
- C. ADD JUMPER FROM U19 PIN 9 TO U19 PIN 5.
- D. ON CIRCUIT SIDE OF BOARD, LOCATION U1, CUT ETCH FROM U1 PIN 13, AS SHOWN BELOW :



- E. ADD JUMPER FROM U1 PIN 13 TO U19 PIN 4.
- F. ADD JUMPER FROM U24 PIN 4 TO U19 PIN 5.



REV	DESCRIPTION	DATE	APPROVED
A	CN451969 (D) X-8-78 (1) UPDATED REV LEVEL BLOCK	4-30-78	E. King
B	CN442498 (C) LTR (1) ADDED REWORK NOTE 1 (2) UPDATED REV LEVEL BLOCK	8-8-79	E. King
C	CN441768 (D) R (1) CREATED -5001 L.M. 2) UPDATED REVISION LEVEL BLOCK	10-4-79	E. King

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL	NOTES	REV LEVEL
4	MARK	100-07	712	NGT .12, CLR BLACK		TEST PROC. 2263483-3901
3	MARK	100-02	21	NGT .00, CLR BLACK		LOGIC 2263482-3901
2	SLDR	124-02	00			PWB 2263481-0001
1	SLDR	127-01	00			ASSY 2263480-0001

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
		PARTS LIST			
		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES ±1° 9 PLACE DECIMALS = .010 2 PLACE DECIMALS = .02 INTERPRET DRAWING PER MIL-D-1000 REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 P/M DIMENSIONAL LIMITS APPLY BEFORE PROCESSES PARENTHEICAL INFO FOR REF ONLY			
		HOLE TOLERANCE: .010 THRU .204 DIA .008 .008 .008 .125 - .021 DIA .008 .008 .008 .501 - .008 DIA .001 .001 .001 .750 - .001 DIA .001 .001 .001			
704 9			EXTERNAL AUTOCALL INTERFACE		
APPLICATION			DATE: 6/26/78 DRAWN BY: [Signature] CHECKED BY: [Signature] DESIGNED BY: [Signature]	TEXAS INSTRUMENTS MICROSYSTEMS Dallas, Texas D96214 2263480	

PROCESSES -- FOR CORRELATION TO GOVT AND SPECIFICATIONS, SEE TI DRAWING 726467

TEXAS INSTRUMENTS INCORPORATED		DATE 08/27/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2263480-0001		REV C	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	REF	EA		2263482-9901	LOGIC DIAGRAM, EXACU I/F						
0003	REF	FA		2263483-9901	TEST PROC., EXACU I/F						
0004	REF	EA		2263484-9901	SPECIFICATION, EXACU I/F						
0027	00002.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL	-M39003/1-2301				
0027A					C19 C22						
0028	00001.000	FA		0972924-0007	CAP FIX TANT SOLID 120 MFD 10 % 10 VOLT	QPL	-M39003/1-2263				
0028A					C2						
0030	00001.000	EA		0972965-0012	CAP FIX CERAMIC .010 MF 10% 200V	QPL	-CK068X103K				
0030A					C18						
0031	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10% 200V	QPL	-M39014/01-1397				
0031A					C17						
0032	00006.000	EA		0972927-0039	CAP FIX MICA 500V 330 PF 5 %	QPL	-CM05E331J0D				
0032A					C4 C7 C8 C9 C12 C13						
0033	00001.000	EA		0972926-0020	CAP FIX MICA 500V 51.0 PF 5 %	QPL	-CM04E510J0D				
0033A					C23						
0034	00001.000	EA		0972709-0001	CONNECTOR, RS-232, 25 PIN MALE						
0034A					J1						
0035	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0036	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL	-917-6302				
0037	00002.000	EA		0808129-0001	CONNECTOR, ELECT SCREW-LOCK ASSY FEMALE	081349	-M24308/26-1				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE EXTERNAL AUTOCALL INTERFACE					
		J. R. RAY	8-28-79			PROJECT NO. 7049					
APPR. MGR.	DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PART NUMBER LM2263480-0001		REV C			

TEXAS INSTRUMENTS INCORPORATED		DATE 08/27/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM2263480-0001		REV C	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0038	00001.000	EA		2263480-5001	AUTO-INSERTION TAPE FOR 2263480-0001						
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE EXTERNAL AUTOCALL INTERFACE					
APPR. MGR.	DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PART NUMBER LM2263480-0001		REV C			

TEXAS INSTRUMENTS INCORPORATED		DATE 08/27/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM2263480-0001		REV C	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0024A					U23						
0025	00003.000	EA		0972946-0105	RES FIX 47 K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0025A					R2 R5 R6						
0026	00003.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0026A					R1 R3 R4						
0029	00012.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0029A					C1 C3 C5 C6 C10 C11 C14 C15						
0029B					C16 C20 C21 C24						
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO-INSERTION TAPE FOR 2263480-0001					
APPR. MGR.	DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PART NUMBER LM2263480-0001		REV C			

External Automatic Calling Unit Interface Module Assembly

TEXAS INSTRUMENTS INCORPORATED		DATE 08/27/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2263480-5001		REV C	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2263481-0001	PWB, ACU MECHANICAL						
0005	00002.000	EA		0972159-7251	NETWORK SN74251N	TI	-SN74251N				
0005A					U1 U5						
0306	00003.000	EA		0996668-0001	IC, LINE DRIVER 9636TC	007263-9636TC					
0006A					U21 U26 U31						
0007	00003.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N				
0007A					U11 U17 U27						
0008	00002.000	EA		0972450-0002	NETWORK, SN75189AN/MC1489AL QUAD LINE RC	SEE	- TI DRAWING				
0008A					U9 U15						
0009	00001.000	EA		0972787-0003	NETWORK SN74LS367N						
0009A					U10						
0010	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI	-SN74LS138N				
0010A					U2 U16						
0011	00002.000	EA		0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N				
0011A					U4 U20						
0012	00001.000	EA		0972900-7402	NETWORK SN74LS02N						
0012A					U24						
0013	00001.000	EA		022222-7433	NETWORK SN7433N						
0013A					U30						
0014	00001.000	EA		0972900-7410	NETWORK SN74LS10N						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTION TAPE FOR 2263480-0001 APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM2263480-5001 REV C											

TEXAS INSTRUMENTS INCORPORATED		DATE 08/27/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM2263480-5001		REV C	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014A					U8						
0015	00001.000	EA		0972749-0001	NETWORK, SN74LS08N						
0015A					U3						
0016	00001.000	EA		0972751-0001	NETWORK, SN74LS86N						
0016A					U7						
0017	00001.000	EA		0996032-0001	IC, OSCILLATOR, VOLTAGE-CONT SN74LS324N	TI	-SN74LS324N				
0017A					U28						
0018	00001.000	EA		0972889-0001	NETWORK, MS555V/1 MS555CN-TIMER, LINEAR	SIN	-MS555V				
0018A					U25						
0019	00002.000	EA		0972900-7400	NETWORK SN74LS00N	TI	-SN74LS00N				
0019A					U14 U29						
0020	00002.000	EA		0972900-7174	NETWORK SN74LS174N						
0020A					U13 U18						
0021	00001.000	EA		0972668-0001	NETWORK SN74LS251N						
0021A					U12						
0022	00001.000	EA		0972669-0001	NETWORK, SN74LS163N						
0022A					U6						
0023	00002.000	EA		0972900-7404	NETWORK SN74LS04N						
0023A					U19 U22						
0024	00001.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTION TAPE FOR 2263480-0001 APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM2263480-5001 REV C											

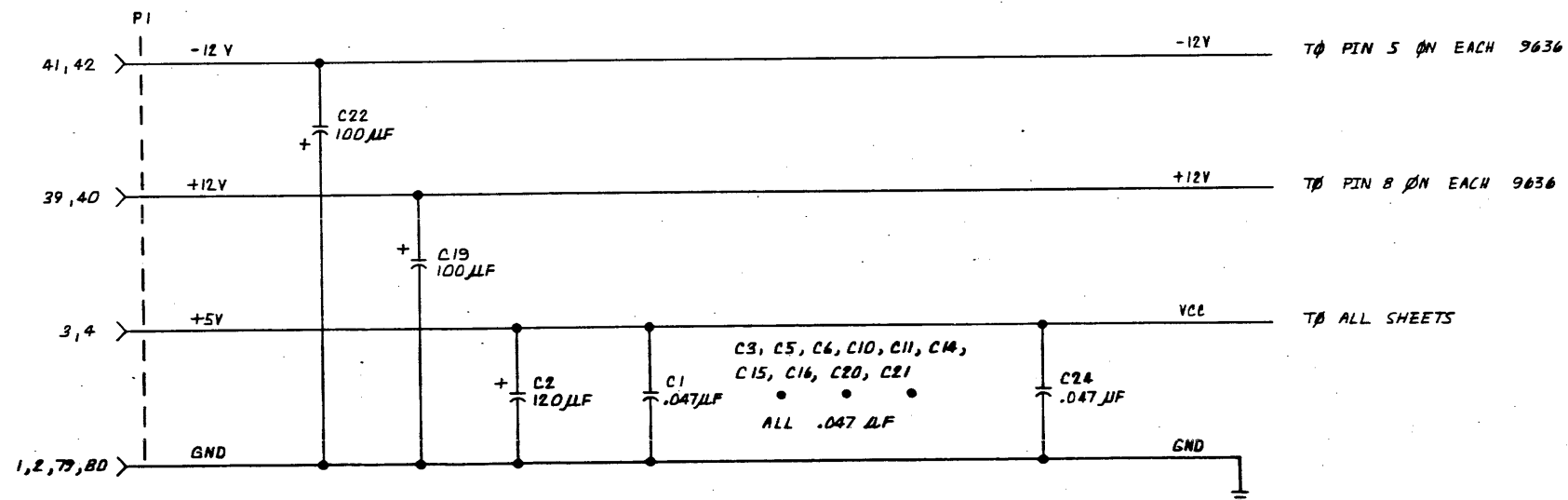
NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DEVICE TYPES PREFIXED WITH SN74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC'S IS SHOWN AS FOLLOWS:



LS04 AND LS00 = DEVICE TYPE
1, 2, AND 3 = PIN NUMBERS
U22 AND U14 = REFERENCE DESIGNATOR

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



REV	STATUS	REV	1	2	3	4
		SH.				

QTY	REQD	ITEM NO	CODE	IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED
 REMOVE ALL BLURS AND SHARP EDGES
 CONCENTRICITY MACHINED DIAMETERS .010 PIR
 DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
 IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
 INTERNET DRAWING IN ACCORDANCE WITH MIL-STD-100
 HOLE TOLERANCE

.013	-.008	.125	-.008	.250	-.008
THRU	-.001	THRU	1.001	THRU	-.001
.125	-.001	.250	-.001	.500	-.001
.501	-.008	.750	-.010	1.001	-.012
THRU	-.001	THRU	1.001	THRU	-.001
.750	-.001	1.000	-.001	2.000	-.001

 NEXT ASSY USED ON APPLICATION

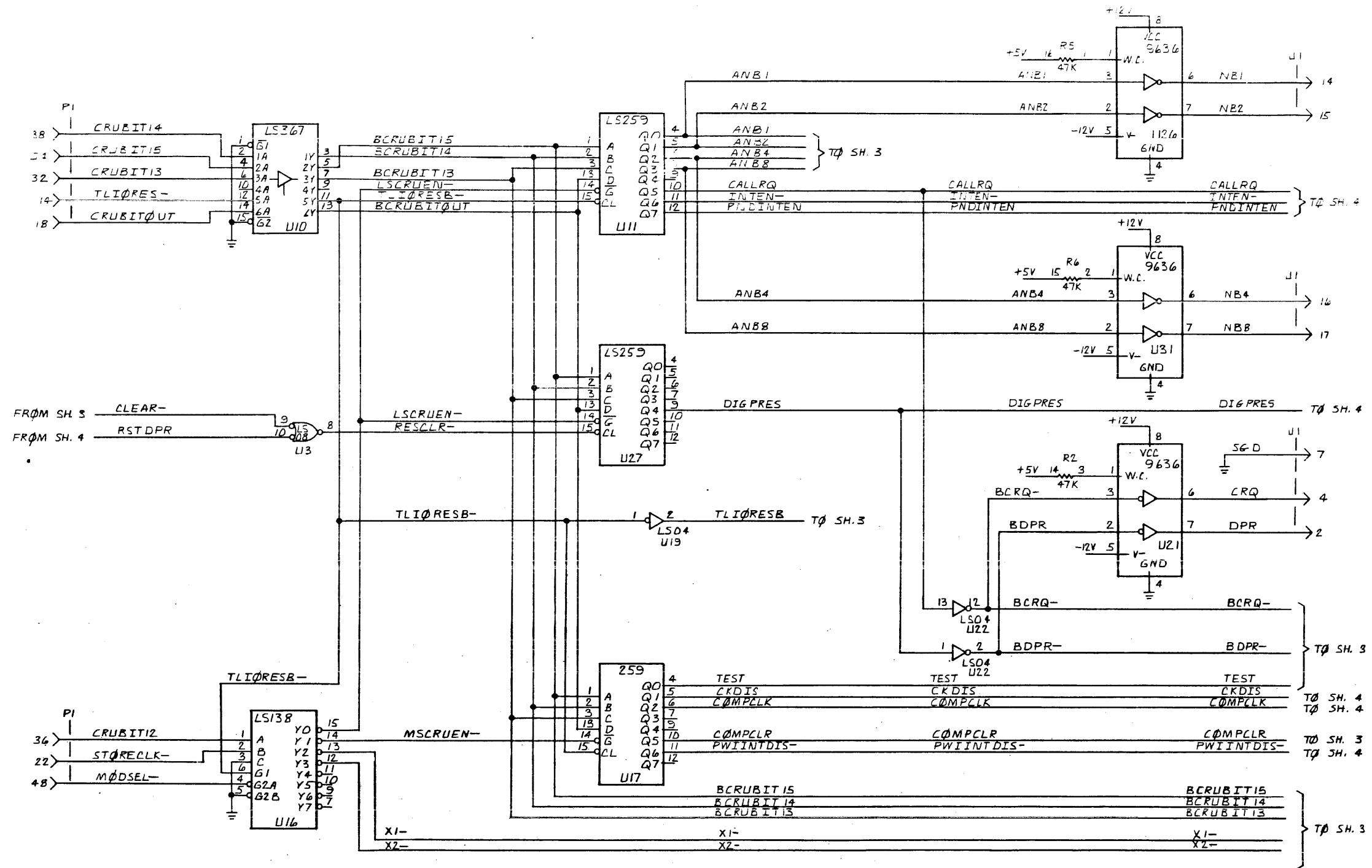
UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES UNLESS 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02
 MATERIAL

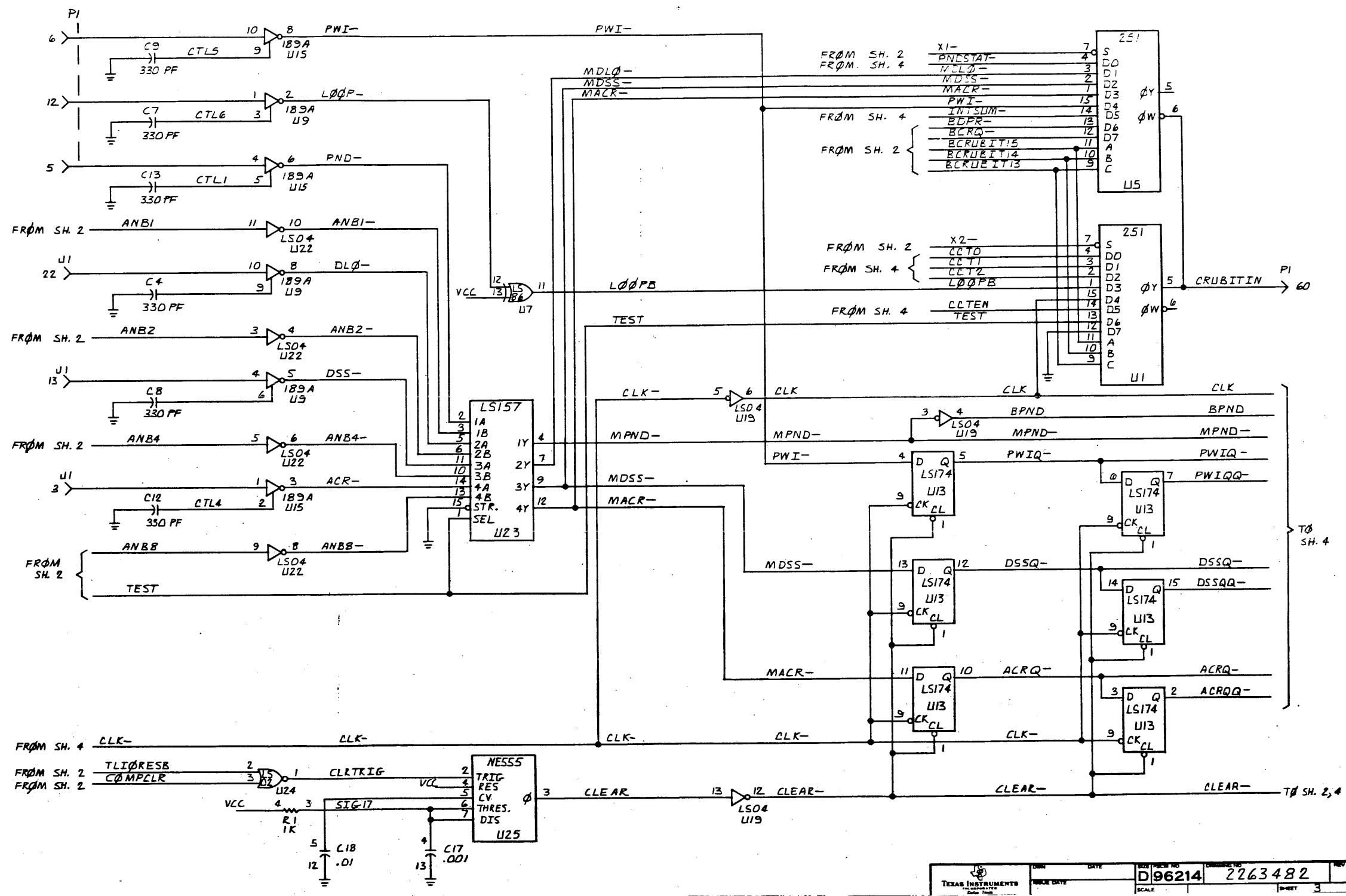
DATE: 7-17-78
 CHK: C. Hester 7-24-78
 DESIGNED BY: J. Hester 7-28-78
 DRAWN BY: J. Hester 7-27-78
 APPROVED BY: J. Hester 7-27-78
 CONTR NO: 2263482
 DESIGN ACTIVITY RELEASE: J. Hester 7-27-78
 SCALE: 1:1
 SHEET 1 OF 4

TEXAS INSTRUMENTS
 INCORPORATED
 Equipment Group Dallas, Texas

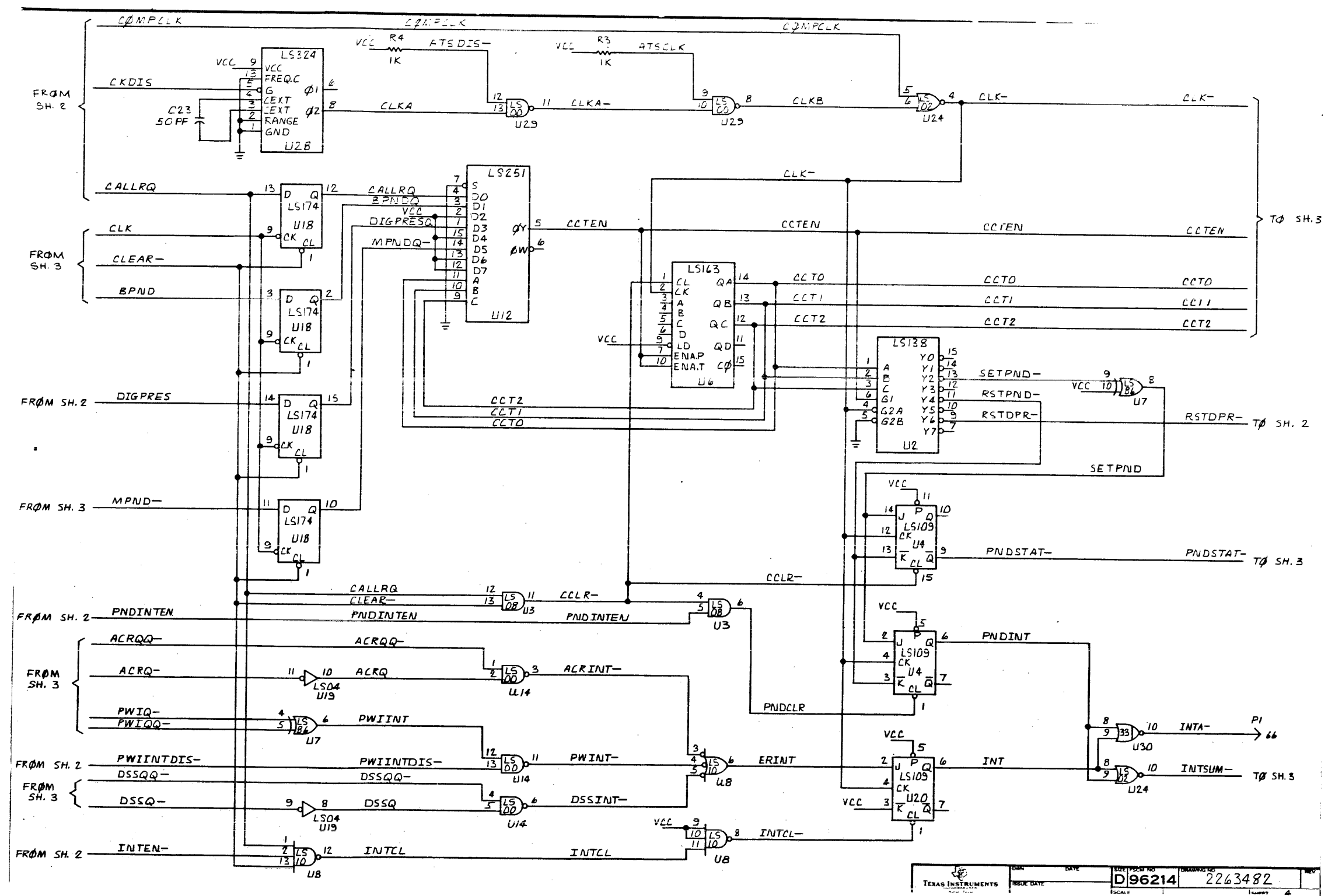
LOGIC DIAGRAM,
 EXTERNAL AUTOCALL
 UNIT I/F

SIZE: D CODE IDENT NO: 96214 DRAWING NO: 2263482
 SCALE: 1:1 SHEET 1 OF 4



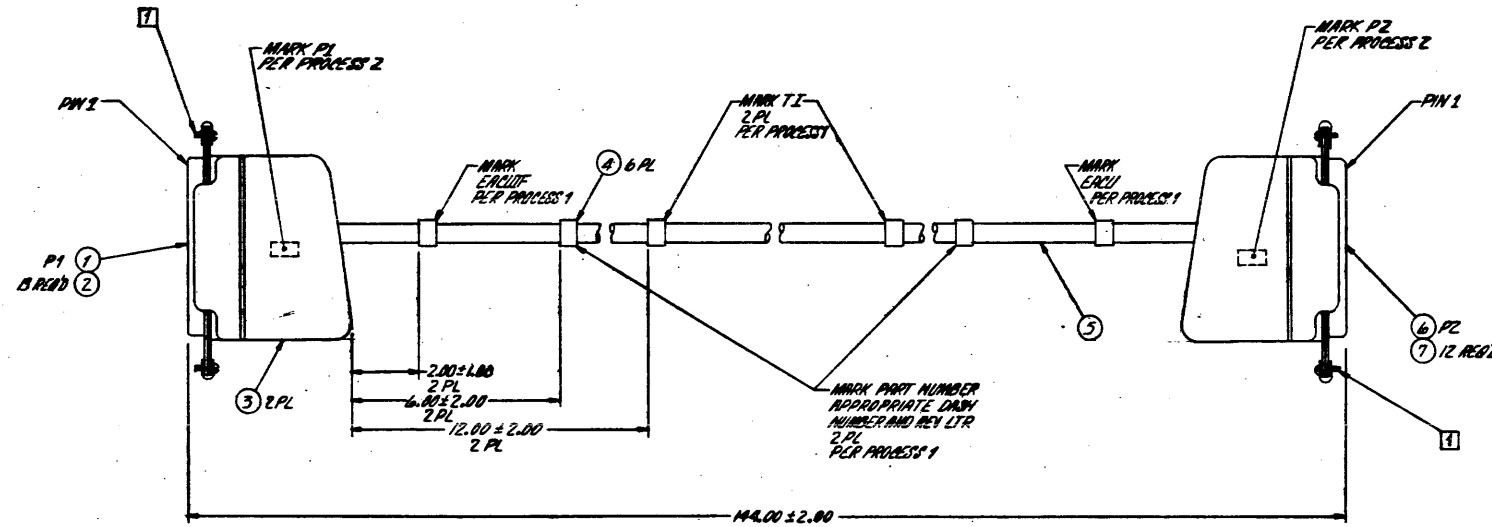


DATE	DESIGNER	PROJECT NO.	REVISION
		D96214	2263482
SCALE	SHEET		3



NOTES: UNLESS OTHERWISE SPECIFIED:
 1. INSTALL VENDOR SUPPLIED CLIPS AND SCREWS ON P1 (ITEM 1) AND P2 (ITEM 6). CLIPS AND SCREWS ARE PARTS OF ITEM 3 (CONN HOODS)

WIRE NO	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	SIGNATURE (ABREVIATION)	DATE	REVISIONS	
									REV	DESCRIPTION	DATE	APPROVED
1	NO 22, BLK				P1-2	P2-2	DAISY PRESENT	DPR	5	
2	RED				-3	-3	ABANDON CALL	ACR		
3	GRN				-4	-4	CALL REQUEST	CRB		
4	WHT				-5	-5	PRESENT NEXT	PND		
5	BRN				-6	-6	POWER INDENTIFY	PWI		
6	BLU				-7	-7	SIGNAL GROUND	SGD		
7	DRN				-13	-13	DATA RET STATUS	DRS		
8	YEL				-14	-14		NR1		
9	WTD				-15	-15		NR2		
10	GRY				-16	-16		NR3		
11	PWR				-17	-17		NR4		
12	NO 22, TAN				P1-22	P2-22	DATA LINE OCCUPIED	BLD	5	



SEQ NO	IDENT	F-SPEC	NO	CLASSIFICATION	NOTES
2	MARK	100-02	21	HST. 12, CLR WHT	
1	MARK	100-07	78	CLR BLK, TYPE 6	
	PROCESS			CLASSIFICATION	

PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE TI DRAWING 729467

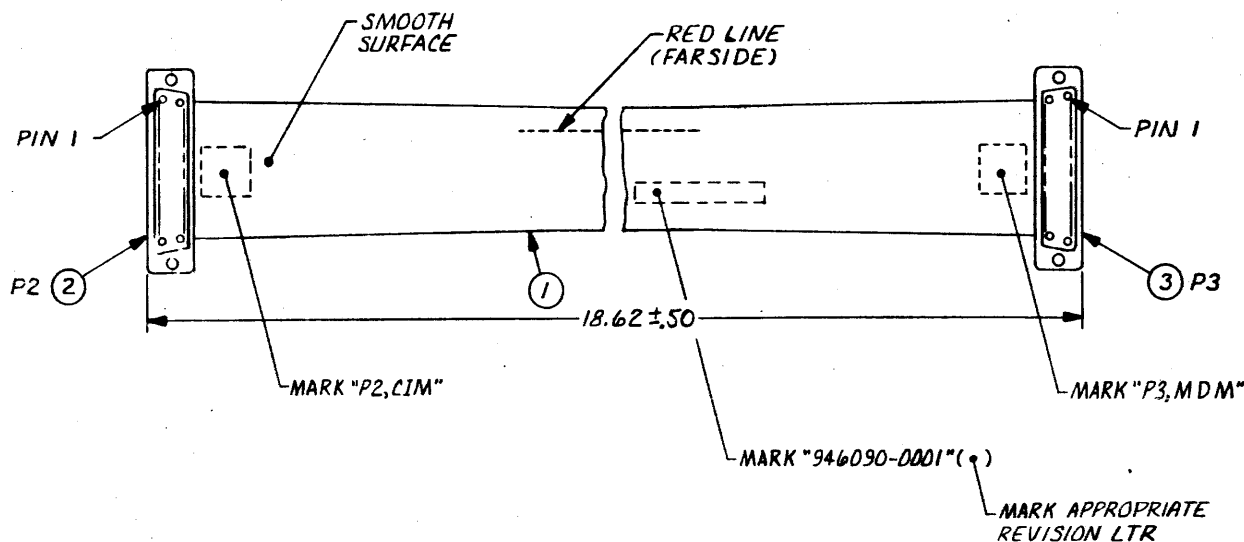
QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES																								
PARTS LIST																													
UNLESS OTHERWISE SPECIFIED: • DIMENSIONS ARE IN INCHES • ANGLES 15° • TOLERANCES: 3 PLACE DECIMALS ± .010 • 2 PLACE DECIMALS ± .02 • INTERPRET DRAWING PER MIL-D-100 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS .010 PPM • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHESES INFO FOR REF ONLY																													
HOLE TOLERANCE																													
<table border="1"> <tr> <td>THRU + .004</td> <td>1.28</td> <td>THRU + .008</td> <td>251</td> <td>THRU + .008</td> <td></td> </tr> <tr> <td>1.50 + .001</td> <td>250</td> <td>250 + .001</td> <td>300</td> <td>300 + .001</td> <td></td> </tr> <tr> <td>301</td> <td>308</td> <td>751</td> <td>0.10</td> <td>1.001</td> <td></td> </tr> <tr> <td>THRU + .001</td> <td>THRU + .001</td> <td>THRU + .001</td> <td>THRU + .001</td> <td>2.000</td> <td></td> </tr> </table>						THRU + .004	1.28	THRU + .008	251	THRU + .008		1.50 + .001	250	250 + .001	300	300 + .001		301	308	751	0.10	1.001		THRU + .001	THRU + .001	THRU + .001	THRU + .001	2.000	
THRU + .004	1.28	THRU + .008	251	THRU + .008																									
1.50 + .001	250	250 + .001	300	300 + .001																									
301	308	751	0.10	1.001																									
THRU + .001	THRU + .001	THRU + .001	THRU + .001	2.000																									
2263907	7049																												
NEXT ASSY USED ON																													
APPLICATION																													
DATE: 6/29/75 BY: J. R. [Signature] DATE: 9-20-78 BY: [Signature] DATE: 9/26/78 BY: [Signature] DATE: 10/6/78 BY: [Signature] DATE: 10-12-78 BY: [Signature]																													
TEXAS INSTRUMENTS INCORPORATED Dallas, Texas				CABLE ASSY, EACU TO EACIF, UNSHIELDED																									
SIZE: 1/2" X 1/2" X 1/2" DRAWING NO: D96214 SCALE: 1/16" = 1"				2263477 SHEET																									

TEXAS INSTRUMENTS INCORPORATED		DATE 09/15/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2263477-0001		REV *	
ITEM NO	QUANTITY ASSEMBLY	UNIT OF MEAS	QTY REQD	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0539409-0006	CONNECTOR, RCPT 25 PINS	AMP -205207-1					
0001A					P1						
0002	00013.000	EA		0539430-0004	CONTACT, SOCKET 24-20AWG .068 INSUL DIA	AMP -205231-3					
0003	00002.000	EA		0539903-0001	HOOD, CONN 25 PIN WITH RETAINERS	AMP - 236478-3					
0004	00006.000	EA		0418201-0000	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-9B					
0005	00012.000	FT		0972444-0005	CABLE, 12COND 27AWG UL LISTED	019007-6914JL					
0006	00001.000	EA		0539409-0005	CONNECTOR, PLUG 25 PINS	AMP -205208-1					
0006A					P2						
0007	00012.000	EA		0539430-0003	CONTACT, PIN 24-20AWG .068 INSUL DIA	AMP -205232-2					
SUPERSEDED											
DESIGNER	DATE	CHKD BY	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, EACU TO EACIF, UNSHIELDED				
							PROJECT NO.	7089	PART NUMBER	LM2263477-0001	REV *

NOTES:

1 ITEM 101 IN-0001 L.M CONSISTS OF BULK CABLE ASSEMBLY MATERIAL

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	A	CN432568 (C) L.M (1) CREATED -5001 L.M (2) ADDED L.M ITEM 101 TO -0001 (3) ADDED FLAG NOTE 1 (4) ADDED PART NO. BLOCK	8-10-79



946090-5001	BULK CABLE ASSY MATERIAL FOR -0001
1 946090-0001	CABLE ASSY, MODEM TO COMM I/F MODULE
PART NUMBER	DESCRIPTION

PROCESSES:

1. MARK PER F-100, METHOD VII,
CLASS 12, COLOR BLACK,
TYPE 6

-2	-1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION															
PARTS LIST																					
UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED																	
<ul style="list-style-type: none"> REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 				<ul style="list-style-type: none"> *DIMENSIONS ARE IN INCHES *TOLERANCES: ANGLES ± 1° 3 PLACE DECIMALS ± .010 2 PLACE DECIMALS ± .02 																	
<table border="1"> <tr> <th colspan="3">HOLE TOLERANCE</th> </tr> <tr> <td>.013 THRU +.004</td> <td>.126 THRU +.005</td> <td>.251 THRU +.006</td> </tr> <tr> <td>.125 THRU -.001</td> <td>.250 THRU -.001</td> <td>.500 THRU -.001</td> </tr> <tr> <td>.501 THRU +.008</td> <td>.751 THRU +.010</td> <td>1.001 THRU +.012</td> </tr> <tr> <td>.750 THRU -.001</td> <td>1.000 THRU -.001</td> <td>2.000 THRU -.001</td> </tr> </table>				HOLE TOLERANCE			.013 THRU +.004	.126 THRU +.005	.251 THRU +.006	.125 THRU -.001	.250 THRU -.001	.500 THRU -.001	.501 THRU +.008	.751 THRU +.010	1.001 THRU +.012	.750 THRU -.001	1.000 THRU -.001	2.000 THRU -.001	MATERIAL: 7510 NEXT ASSY USED ON APPLICATION		
HOLE TOLERANCE																					
.013 THRU +.004	.126 THRU +.005	.251 THRU +.006																			
.125 THRU -.001	.250 THRU -.001	.500 THRU -.001																			
.501 THRU +.008	.751 THRU +.010	1.001 THRU +.012																			
.750 THRU -.001	1.000 THRU -.001	2.000 THRU -.001																			
DESIGN ACTIVITY RELEASE 8/25/76 8/25/76				TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas CABLE ASSEMBLY, MODEM TO COMMUNICATIONS INTERFACE MODULE SIZE CODE IDENT NO DRAWING NO C 96214 946090 SCALE 1/1 SHEET																	

Modem to Communications Interface Module Cable Assembly

TEXAS INSTRUMENTS INCORPORATED		DATE 07/19/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946090-0001		REV A	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	00001.000	EA		0972712-0001	CONNECTOR, 25P, D STYLE, SKT VERSION, FLT CBL						
0002A					P2						
0003	00001.000	EA		0972695-0001	CONNECTOR, 25P, D STYLE, PIN VERSION, FLT CBL						
0003A					P3						
0101	00001.000	EA		0946090-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001						

DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
		<i>J. K. ...</i>	8-1-79			CABLE ASSY, MODEN TO COMM I/F MODULE
APP'D ENG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO
						7510

PART NUMBER		REV
LM0946090-0001		A

TEXAS INSTRUMENTS INCORPORATED		DATE 07/19/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946090-5001		REV A	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.800	FT		0972691-0001	CABLE, FLAT, 25 CONDUCTOR, D-SERIES						

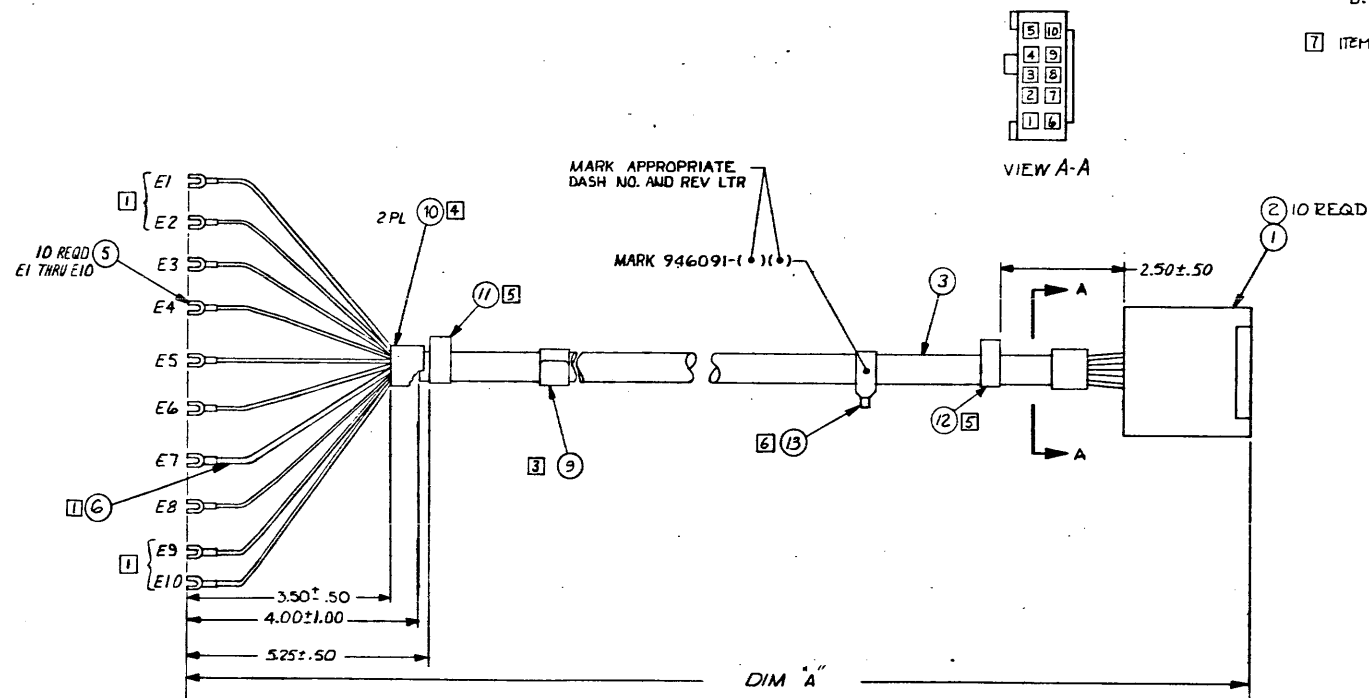
DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
						BULK CABLE ASSEMBLY MATERIAL FOR -0001
APP'D ENG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO

PART NUMBER		REV
LM0946090-5001		A

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	PL ITEM NO.
1	CABLE 3-1/8				P1-2	E1	DR1	3
2	RED				1	E2	DT1	
3	ORJ				7	E3	RI	
4	YEL				2	E4	OH	
5	GRN				8	E5	CCT	
6	BLU				3	E6	DA	
7	CLR				9	E7	SG	7
8	GRY				4	E8	SH	
9	WHT SHIELDED PAIR				10	E9	DR2	
10	CABLE BLK				P1-5	E10	DTZ	3

- NOTES:
- DISCARD FOIL FROM TWISTED PAIRS ON E1-E2 E7-E10 AND COMBINE THE TWO (2) BARE CONDUCTORS USING ITEM 6
 - PLACE ITEM 7 INSIDE ITEM 8 AND ATTACH TO CABLE NEAR "DAA" END
 - WRAP ITEM 9 (UL LABEL) AROUND ITEM 3 (CABLE) SO THAT ENDS OVERLAP
 - APPLY HEAT TO SLEEVING TO SHRINK
 - INSTALL LABELS ITEMS 11 AND 12 SO THAT THEY MAKE FLAGS SO THAT ALL OF THE INFO IS READABLE
 - REWORK PROCEDURE FOR CABLES BUILT TO DWG 946091 REV D AND E USING BLACK SLEEVING PN 972436-0007 FOR ITEM 6 IS AS FOLLOWS:
 - INSTALL LABEL PART NO 936478-0029 NOTE 5 TECHNIQUE, APPROXIMATELY .50 INCHES FROM ITEM 10
 - INSTALL ITEM 13 REV LETTER BAND WITH "F" REV LETTER
 - ITEM 101 ON-0001 LM CONSISTS OF BULK CABLE ASSY MATL

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN422350 (C) 3-14-77 (1) ADDED ITEM 10 TO LMS 8 P 10 FOR PL, ADDED ITEM 3 5-21-80	2-14-77	J. R. P.
B		CN 421206 (D) 11-1-77 (1) DELETED ITEM 6 FROM LM & DRAWING (0001E-0002) (2) ADDED ITEMS 11 & 12 (0001E-0002) TO LM & DRAWING (3) DELETED PROCESS 1.	3-31-77	J. R. P.
C		CN 42597510 (A) 11-15-77 (1) ON-5001 E-0002 LM ITEM 2 NA. 539580-5002	11-15-77	J. R. P.
D		CN 425434 (E) 5-15-78 (1) LM PAI OF ITEM 10-11-2 WAS 417177-0006 (2) PAI OF ITEM 6-11-2 WAS 411634-0407	5-15-78	J. R. P.
E		CN 446765 (C) 8-31-78 (1) REVISED PICTURE OF ITEM 1 AND VIEW A-A	8-31-78	J. R. P.
F		CN 448802 (B) & 4-11-79 (1) ON-11-2 LM; ITEM 6 WAS 972436-0007, ADDED ITEM 13, 121 ON F/D, ADDED NOTES 4, 5, AND 6, W/L WIRE 7 DESCRIPTION WAS V10	12-11-79	J. R. P.
G		CN 448809 (C) 2-19-79 (1) 11-2-C6 ADDED TO NOTE ON F/D AT ITEM 13 (2) REINSTATED PROCESS 10.1	2-19-79	J. R. P.
H		CN 452567 (C) 9-11-79 (1) CREATED -5001 LM (2) ADDED ITEM 101 TO -0001 LM (3) ADDED NOTE 7 (4) ADDED -5001 TO FUJ BLOCK	9-11-79	J. R. P.
J		CN 447658 (C) 1-3-80 (1) DELETED ITEM 7 FROM -5001 LM (2) ADDED ITEM 7 TO -0001 LM	1-3-80	J. R. P.



PART NO	DESCRIPTION	DIM "A"
946091-0001	CABLE ASSY MODEM TO DAA	30 FT ± 6 IN
946091-0002	CABLE ASSY MODEM/DAA-LUG TERMINATION	10 FT ± 6 IN
946091-5001	BULK CABLE ASSY MATL FOR -0001	-

PROCESSES:
1. MARK PER F-100, METHOD VII, CLASS 12, HEIGHT .12, COLOR BLACK

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS 0.10 F8	DIMENSIONS ARE IN INCHES	TOLERANCES ANGLES ± 1° 3 PLACE DECIMALS ± 0.10 2 PLACE DECIMALS ± 0.02
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			
HOLE TOLERANCE			
0.13 +.004	-.125	251	-.006
THRU	-.001	THRU	1.500
1.501	751	1.001	-.001
THRU	1.000	THRU	2.000
THRU	1.000	THRU	2.000

PARTS LIST	
DWN	DATE
CHK	
ENGR	
QA	
APPR	
CONTR NO	
DESIGN ACTIVITY RELEASE	
SCALE	SHEET

SIZE	CODE IDENT NO	DRAWING NO
D	96214	946091

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0946091-0001		REV J	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0996308-0J01	CONNECTOR, RECEPTACLE, .100 GRID 10 POS	AMP - 87631-6					
JJ01A					P4						
JJ06	AR	FT		0411634-0510	SLEEVE, PVC, .053 DIA. CLEAR	QPL - MIL-1-631					
JJ07	00006.000	EA		0596357-0J01	CAP, SPARE WIRE	AMP - 324484					
JJ08	00001.000	EA		0532997-0011	BAG, POLYETHYLENE, HEAT SEALED						
JJ09	00001.000	EA		0562571-0005	PLATE, ID, EDP CABLE						
JJ11	00001.000	EA		0936478-0021	MARKER CABLE						
JJ12	00001.000	EA		0936478-0019	MARKER CABLE						
JJ01	00001.000	EA		0946091-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001						

DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, MODEM TO DAA				
APPRO. ENG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7510	PART NUMBER	LM 0946091-0001	REV	J

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0946091-0002		REV J	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0996308-0J01	CONNECTOR, RECEPTACLE, .100 GRID 10 POS	AMP - 87631-6					
JJ01A					P4						
JJ02	00010.000	EA		0539380-0006	CONTACT, 24-20AWG BERY COPPER	089110-87309-3					
JJ03	00010.000	FT		0972444-0J04	CABLE #24 AWG 5 CONDUCTOR UL LISTED						
JJ05	00010.000	EA		0404448-0J03	TERMINAL LUG, SLOTTED, 22-16, NO3 OR 4						
JJ05A					E1 THRU E10						
JJ06	AR	FT		0411634-0510	SLEEVE, PVC, .053 DIA. CLEAR	QPL - MIL-1-631					
JJ07	00006.000	EA		0596357-0J01	CAP, SPARE WIRE	AMP - 324484					
JJ08	00001.000	EA		0532997-0J11	BAG, POLYETHYLENE, HEAT SEALED						
JJ09	00001.000	EA		0562571-0J05	PLATE, ID, EDP CABLE						
JJ10	00000.200	FT		0972146-0J06	TUBING, HEAT SHRINKABLE .250 ID BLACK						
JJ11	00001.000	EA		0936478-0022	MARKER CABLE						
JJ12	00001.000	EA		0936478-0J20	MARKER CABLE						
JJ13	00001.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98					

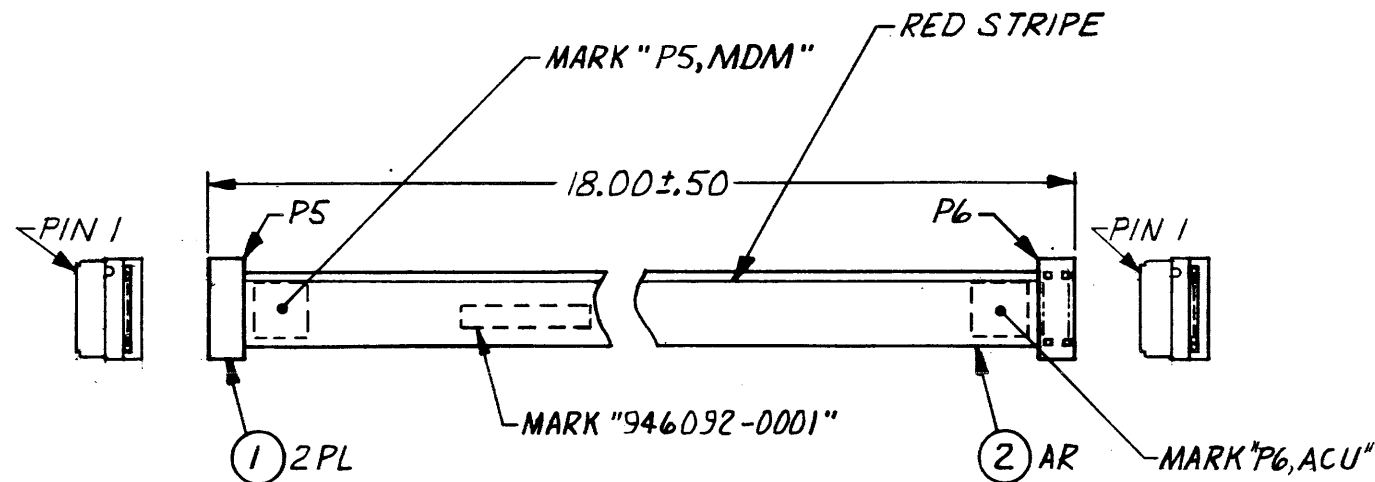
DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, MODEM/DAA-LUG TERMINATION				
APPRO. ENG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 0946091-0002	REV	J

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0946091-5001		REV J	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ02	00010.000	EA		0539380-0006	CONTACT, 24-20AWG BERY COPPER	089110-87309-3					
JJ03	00030.000	FT		0972444-0J04	CABLE #24 AWG 5 CONDUCTOR UL LISTED						
JJ05	00010.000	EA		0404448-0003	TERMINAL LUG, SLOTTED, 22-16, NO3 OR 4						
JJ05A					E1 THRU E10						
JJ10	00000.200	FT		0972146-0J06	TUBING, HEAT SHRINKABLE .250 ID BLACK						
JJ13	00001.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98					

DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0001				
APPRO. ENG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 0946091-5001	REV	J

NOTES:

1 ITEM 101 IN-0001 LM CONSISTS OF BULK CABLE ASSEMBLY MATERIAL



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	CN 418135 (C) <i>blanket</i> (1) REVISED LM 946092 ITEM 1 PART NO WAS 996310-0001	12/3/76	<i>Edolgin</i>
	B	CN 432566 (C) <i>D. Jans</i> (1) CREATED-5001 LM (2) ADDED ITEM 101 TO -0001 LM (3) ADDED FLAG NOTE 1(4) ADDED PART NO. BLOCK	8-13-79	<i>J. R. Ross</i>
	C	CN 447639 (C) <i>A. Autowsh.</i> (1) PROCESS I WAS METHOD VII	11-5-79	<i>J. R. Ross</i>
	D	CN 433716 (D) <i>H. S. S. S.</i> (1) DELETED NOTATION "SMOOTH SURFACE" (2) RED STRIPE WAS "RED STRIPE (FAR SIDE)" (3) PROCESS I HEIGHT WAS .12 (4) LM-0001 ITEM 1 PN WAS 972146-0006 (5) LM-5001 ITEM 2 PN WAS 972692-0001 (6) ON P5 PIN I WAS PIN I FAR SIDE (7) ADDED CONNECTOR END VIEWS 2 PLACES	6 DEC. 79	<i>J. R. Ross</i>

946092-5001	BULK CABLE ASSY MATERIAL FOR-0001
946092-0001	CABLE, MODEM TO AUTO CALL UNIT
PART NUMBER	DESCRIPTION

PROCESSES:

1. MARK PER F-100, METHOD II, CLASS I, HEIGHT .25, COLOR BLACK

-2	-1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION															
PARTS LIST																					
UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED		<div style="text-align: right;"> TEXAS INSTRUMENTS <small>INCORPORATED</small> Equipment Group Dallas, Texas </div>															
<ul style="list-style-type: none"> REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 				<ul style="list-style-type: none"> DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES ± 1° 3 PLACE DECIMALS ± .010 2 PLACE DECIMALS ± .02 																	
<table border="1"> <thead> <tr> <th colspan="3">HOLE TOLERANCE</th> </tr> <tr> <th>.013 THRU .125</th> <th>.126 THRU .250</th> <th>.251 THRU .750</th> </tr> </thead> <tbody> <tr> <td>+.004</td> <td>+.005</td> <td>+.006</td> </tr> <tr> <td>-.001</td> <td>-.001</td> <td>-.001</td> </tr> </tbody> </table>		HOLE TOLERANCE			.013 THRU .125	.126 THRU .250	.251 THRU .750	+.004	+.005	+.006	-.001	-.001	-.001	<table border="1"> <tbody> <tr> <td>946163</td> <td>7506</td> </tr> <tr> <td>946163</td> <td>7510</td> </tr> </tbody> </table>		946163	7506	946163	7510	MATERIAL: CONTR NO DESIGN ACTIVITY RELEASE	
HOLE TOLERANCE																					
.013 THRU .125	.126 THRU .250	.251 THRU .750																			
+.004	+.005	+.006																			
-.001	-.001	-.001																			
946163	7506																				
946163	7510																				
<table border="1"> <tbody> <tr> <td>APPLICATION</td> <td>NEXT ASSY</td> <td>USED ON</td> </tr> </tbody> </table>		APPLICATION	NEXT ASSY	USED ON			SIZE B CODE IDENT NO 96214 DRAWING NO 946092														
APPLICATION	NEXT ASSY	USED ON																			
				SCALE 1/1	SHEET																

Internal Modem to Automatic Call Unit Cable Assembly

TEXAS INSTRUMENTS INCORPORATED		DATE 11/15/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0946092-0001		REV D	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00002.000	EA		0996261-0001	CONNECTOR RECEPTACLE 10 POSITION	0J0779-88377-1					
JJ01A					P5 P6						
J.J01	00001.000	EA		0946092-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001						

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE, MODEM TO AUTO CALL UNIT				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7510	PART NUMBER	LM 0946092-0001	REV	D

TEXAS INSTRUMENTS INCORPORATED		DATE 11/15/79		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0946092-5001		REV D	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ02	00001.000	FT		0996491-0009	CABLE, ELEC 10 CONNETOKS MULTI COND, FLAT	008261-455-240-10					

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0001				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 0946092-5001	REV	D

- NOTES: UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN MILLIMETRES
 - GENERAL TOLERANCE:
ONE PLACE: 0.5
TWO PLACE: 0.25
 - INSTALL ITEM 85 OVER CRYSTALS Y1 AND Y2. (ITEMS 66 AND 67) BEFORE INSTALLING ON BOARD. APPLY ITEM 80 TO Y1, Y2, AND P2 AFTER PROCESS 1.
 - REWORK FOR PWB, REV. A ONLY:
A1) ON THE CONDUCTOR SIDE OF THE PWB NEAR CONNECTOR P2, MAKE 2 ETCH CUTS AS SHOWN BELOW!

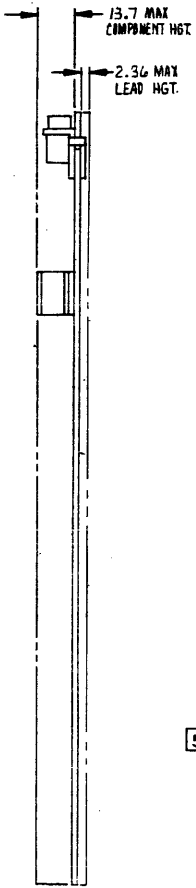
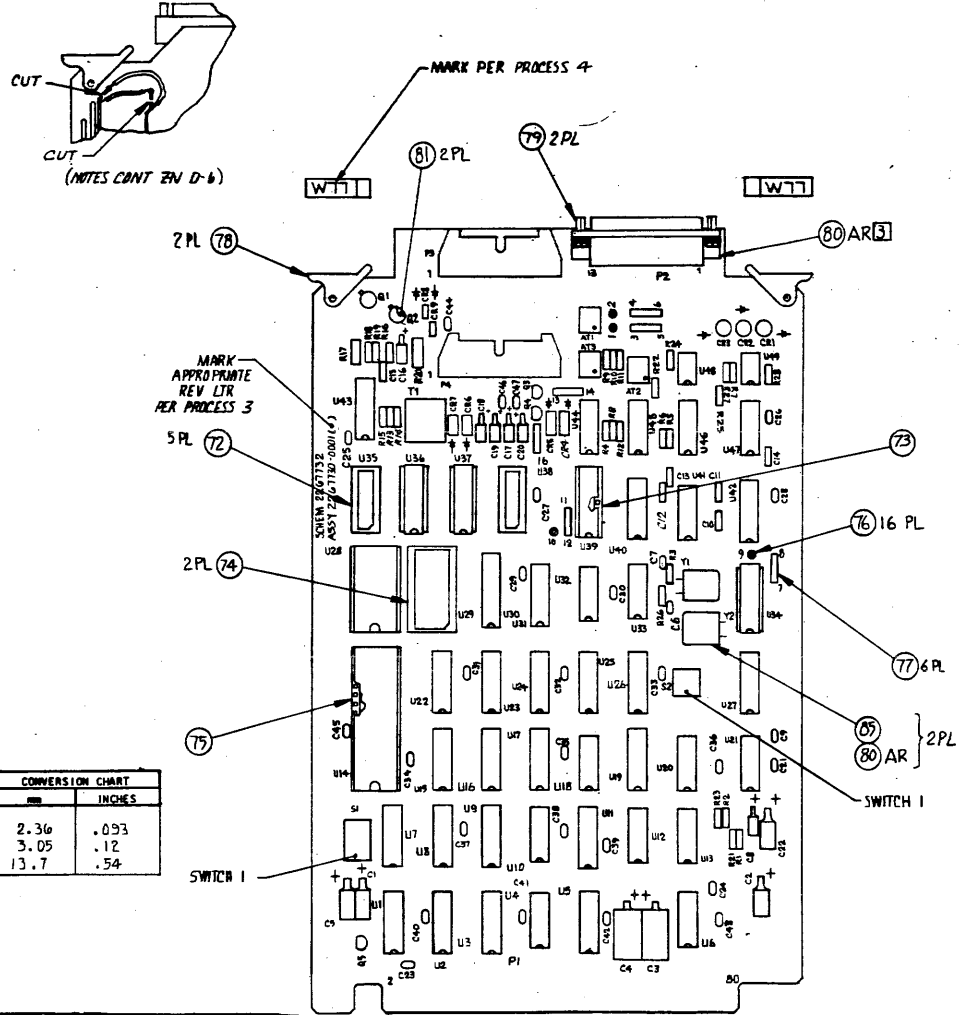
- MAKE THE TWO CONNECTIONS SHOWN USING #30 SOLID KVMR WIRE. P/W 535978-58. APPLY ITEM 80 TO REWORK WIRES AS NECESSARY TO SECURE WIRES TO PWB.
- ITEM 86 IN THE -0001 LM CONSISTS OF COMPONENTS WHICH ARE AUTO-INSERTED AND CONTAINED IN THE -5001 LM.

REV	DESCRIPTION	DATE	APPROVED
D	CN447445 (C) C. L. (1) CREATED -5001 LM (2) ADDED ITEM 86 TO -0001 LM (3) UPDATED REV. LEVEL BLOCK	1-23-80	J. P. [Signature]
E	CN435546 (B) C. L. (1) ON -0001 LM ITEM 27 P/W WAS 2267804-0001 (2) UPDATED REV. LEVEL BLOCK	1-23-80	J. P. [Signature]
F	CN459010 (D) C. L. (1) ADDED ITEMS 34 & 54 TO -5001 LM & DELETED THEM FROM -0001 LM (2) -5001 LM QTY ITEMS 35, 51, 54 & 60 WAS 2, 2, 5, 3, #2 RES -0001 LM ADDED ITEMS 35, 51, 54 & 60 (3) UPDATED REV. LEVEL BLOCK	1-23-80	J. P. [Signature]

(REV'S CONT. Z B-1,2)

REV	DESCRIPTION	DATE	APPROVED
A	CN449872 (D) C. L. (1) ON LM ITEM 40 P/W WAS -0001, ITEM 64 WAS -0001 (2) EN C-6,7, CHANGED OUTLINE OF PWB (3) EN A-7 ADDED SMALL TAB TO CORNER OF PWB (4) UPDATED REV. LEVEL BLOCK	7-24-79	E. Niag
B	CN449943 (C) E. Niag (1) ON LM ITEM 40 WAS -0001 (2) UPDATED REV. LEVEL BLOCK	7-24-79	E. Niag
C	CN435445 (D) C. L. (1) UPDATED REV. LEVEL BLOCK (2) ADDED SWITCH SETTING TABLES	1-23-80	J. P. [Signature]

(REV'S CONT. Z D-3,4)



SWITCH SETTING						ADDRESS (HEX)
SI-1	SI-2	SI-3	SI-4	SI-5	SI-6	
ON	ON	ON	ON	ON	ON	00
ON	ON	ON	ON	ON	OFF	01
ON	ON	ON	ON	OFF	ON	02
ON	ON	ON	ON	OFF	OFF	03
OFF	ON	ON	ON	ON	ON	20
OFF	ON	ON	ON	ON	OFF	21
OFF	ON	ON	ON	OFF	OFF	22
OFF	OFF	ON	ON	ON	ON	3F

SWITCH SETTING	BAND RATE (BITS/SECOND)
S2-1 ON	1200
S2-1 ON	1800
S2-1 ON	2400
S2-1 ON	3600
S2-1 OFF	4800
S2-1 OFF	7200
S2-1 OFF	9600
S2-1 OFF	NOT USED

JUMPER SETTING	FUNCTION
1 TO 3 AND 2 TO 4	LINE TERMINATIONS ENABLED
3 TO 5 AND 4 TO 6	LINE TERMINATIONS DISABLED
7 TO 8	LOCAL LINE MODE SELECTED
8 TO 9	EIA MODE SELECTED
11 TO 12	CLOCK INPUT TO TMS9903 CONNECTED TO 23-OFTMS9903A
10 TO 12	NOT USED
13 TO 14 AND 15 TO 16	POWER SUPPLIED TO ISOLATED I/O STAGE

SWITCH SETTING	FUNCTION
S2-4 = OFF	ADDRESS DECODE ENABLED
S2-4 = ON	ADDRESS DECODE DISABLED

METRIC

5	2267730-5001	AUTO INSERTED LM FOR 2267730-0001
	2267730-0001	LOCAL LINE MODULE
	PART NO	DESCRIPTION

ZONE	REV	DESCRIPTION	DATE	APPROVED
G		CN435549 (D) C. L. (1) ON-0001 LM QTY ITEM 49 WAS 6 & ADDED ITEM 87 (2) ADDED NOTE 5 (3) UPDATED REVISION LEVEL BLOCK	2-14-80	J. P. [Signature]

REV. LEVEL	TEST PROC	2267733-0901	*	*	*	*	*	*	*
	LOG C	2267732-0901	*	A	B	B	B	B	C
	PWB	2267731-0001	A	B	B	C	C	C	C
	ASSY	2267730-0001	*	A	B	C	D	E	F

4	MARK	100-07	712	CLR BLK, TYPE 6
3	MARK	100-02	81	HGT 3.05, CLR BLK
2	SLDR	127-01	00	
1	SLDR	124-02	00	

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

PROCESSES - FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE TI DRAWING 729467

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED:
 • DIMENSIONS ARE IN INCHES [1]
 • TOLERANCES - ANGLES ±1° [1]
 • 3 PLACE DECIMALS = 0.001 [2]
 • 2 PLACE DECIMALS = 0.02 [2]
 • INTERPRET DRAWING PER MIL-STD-1000
 • REMOVE ALL BURRS AND SHARP EDGES
 • CONCENTRICITY MACHINED DIAMETERS ±.015 FIM
 • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
 • PARENTHEetical INFO FOR REF ONLY

HOLE TOLERANCE
 018 THRU .030 1/28 THRU .005 THRU .008
 125 .001 3 PLACE DECIMALS = 0.001 500 .001
 501 THRU .008 751 THRU .010 THRU .012
 750 .001 1.000 THRU .012 2.000 .001

DATE: 4/3/79
 DATE: 5-4-79
 DATE: 5-22-79
 DATE: 5/12/79
 DATE: 5-23-79

TEXAS INSTRUMENTS
 INCORPORATED
 DALLAS, TEXAS

LOCAL LINE MODULE

SIZE: PSCW NO: D96214 DRAWING NO: 2267730
 SCALE: 1/1 SHEET

TEXAS INSTRUMENTS INCORPORATED		DATE 02/06/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2267730-0001		REV G				
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER								
0017	00001.000	EA		0996420-0001	IC, SN74LS373N	001295-SN74LS373N								
0017A					L30									
0025	00001.000	EA		0996858-0001	IC, COM5016-6 DUAL BAUD RATE GENERATOR	053848-COM 5016-6								
0025A					U34									
0027	00001.000	EA		2267804-0002	EPROM, TMS2716, LLP FIRMWARE									
0027A					U28									
0028	00002.000	EA		0596464-0003	IC, 2114 1024x4-BIT STATIC RAM	001295-TMS4045-45NL								
0028A					U36 U37									
0029	00001.000	EA		0996484-0001	IC, TMS9903 SYNCHRONOUS RECEIVER XMTR	001295-TMS9903								
0029A					U39									
0030	00001.000	EA		0996481-0001	IC, TMS-9980, MPU 16-BIT	001295-TMS-9980								
0030A					U14									
0035	00001.000	EA		0972946-0057	RES FIX 470 OHM 5% .25 W CARBON FILM	ROH - R-25								
0035A					R3									
0036	00001.000	EA		0572946-0045	RES FIX 150 OHM 5% .25 W CARBON FILM	ROH - R-25								
0036A					R25									
0043	00001.000	EA		0972946-0135	RES FIX 1.2P OHM 5% .25 W CARBON FILM	ROH - R-25								
0043A					R21									
0046	00001.000	EA		0972977-0081	RES, 560OHMS, .5W 54 CMPSN, INSULATED, FIXED	-RCR206561JS								
0046A					R17									
DRAFTSMAN				DATE	CVD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	LOCAL LINE MODULE				
APPROVED				DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO.	7067	PART NUMBER	LM 2267730-0001	REV	G

TEXAS INSTRUMENTS INCORPORATED		DATE 02/04/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2267730-0001		REV G				
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER								
0048	00001.000	EA		0572925-0361	CAP FIX CERAMIC 10.0 PF 10 x 200 V	QPL -M39014/01-1361								
0048A					C6									
0049	00001.000	EA		0972965-0008	CAP FIX CERAMIC .0047 MF 10% 200 V	QPL - CK068X472K								
0049A					C15									
0050	00003.000	EA		0972929-0415	CAP FIX CERAMIC .010 UF 10 x 100 V	QPL -M39014/01-1415								
0050A					C7 C9 C21									
0051	00003.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80V, -20V									
0051A					C23 C46 C47									
0054	00002.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 x 15 VOLT	QPL -M39003/1-2271								
0054A					C1 C5									
0055	00002.000	EA		0996681-0001	CAPACITOR, 35MF 25V -10%+75% ALUM ELCTLT	056289-30020760250H5								
0055A					C3 C4									
0056	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220									
0056A					CR3									
0057	00002.000	EA		0539480-0004	OPTOELECTRONIC DEVICE VISIBLE-LIGHT (GRN)	TI -TIL222								
0057A					CR1 CR2									
0059	00002.000	EA		0572118-0004	DIODE 1N5338	MOT -1N5338								
0059A					CR4 CR5									
0060	00001.000	EA		0572932-0001	DIODE 1N914B	SEE TI- DRAWING								
0060A					CR9									
DRAFTSMAN				DATE	CVD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	LOCAL LINE MODULE				
APPROVED				DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 2267730-0001	REV	G

TEXAS INSTRUMENTS INCORPORATED		DATE 02/06/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 2267730-0001		REV G				
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER								
0061	00002.000	EA		0972956-0001	TRANSISTOR, NPN, HIGH CURRENT SW TO-5	TI - 2N3725A								
0061A					C1 C2									
0062	00001.000	EA		0596936-0001	IC, UA78L05ACL, POSITIVE VOLTAGE RGLTR	001295-UA78L05ACL								
0062A					C3									
0063	00002.000	EA		0596938-0001	IC, MC79L05ACP, NEGATIVE VOLTAGE REGULATOR	004713-MC79L05ACP								
0063A					C4 C5									
0064	00003.000	EA		0971000-0004	IC TIL-117 OPTICALLY COUPLED ISOLATOR									
0064A					AT1 AT2 AT3									
0065	00001.000	EA		2261953-0001	TRANSFORMER, FERRITE, ISOLATION									
0065A					T1									
0066	00001.000	EA		0538031-0005	CRYSTAL UNIT QUARTZ 9.8304 MHZ .0054	MIL -CR60A/U 9.8304								
0066A					Y1									
0067	00001.000	EA		0596618-0003	CRYSTAL, QUARTZ .0054 5.0688 MHZ	075378-MP050								
0067A					Y2									
0068	00001.000	EA		0772923-0001	SWITCH DUAL IN LINE, 4 POSITION	AMP -435166-2								
0068A					S2									
0069	00001.000	EA		0772923-0003	SWITCH DUAL IN LINE, 6 POSITION	AMP -435166-4								
0069A					S1									
0070	00001.000	EA		0572709-0001	CONNECTOR, RS-232, 25 PIN MALE									
0070A					P2									
DRAFTSMAN				DATE	CVD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	LOCAL LINE MODULE				
APPROVED				DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 2267730-0001	REV	G

TEXAS INSTRUMENTS INCORPORATED		DATE 02/06/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 2267730-0001		REV G				
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER								
0071	00002.000	EA		0972137-0001	CONNECTOR, PC-HEADER 20 CONTACT	BEI - 65483-001								
0071A					P3 P4									
0072	00005.000	EA		2210188-0004	SOCKET, LOW PROFILE, DIP, 18 CONT.	003612-DIL818P-108								
0072A					XU34 XU35 XU36 XU37 XU38									
0073	00001.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-DIL820P-108								
0073A					XU35									
0074	00002.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-DIL824P-108								
0074A					XU28 XU29									
0075	00001.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-DIL840P-108								
0075A					XU14									
0076	00016.000	EA		0972742-0001	SOCKET, SINGLE LEAD, PWB MTG.									
0077	00006.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH									
0078	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB									
0079	00002.000	EA		0808129-0001	CONNECTOR, ELECT SCREW-LOCK ASSY FEMALE	081349-M24308/26-1								
0080	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAERGBIC	PERSAL-917-6302								
0081	00002.000	EA		0530127-0001	PAD, MOUNTING, TO-18 4 LEAD, WHITE	013103- 7717-44N								
0082	REF	EA		2267732-9901	LOGIC DIAGRAM, LOCAL LINE MODULE									
0083	REF	EA		2267734-9901	SPECIFICATION, LOCAL LINE MODULE									
0084	REF	EA		2267733-9901	UNIT TEST PROCEDURE, LOCAL LINE MODULE									
0085	00000.100	ET		0972437-0005	INSULATION SLEEVING 1/4" HEAT SHRINKABLE LFS	- HT-105C-UL-1								
DRAFTSMAN				DATE	CVD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	LOCAL LINE MODULE				
APPROVED				DATE	APPROVED	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 2267730-0001	REV	G

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/06/80		PAGE 5 of		PART NUMBER LM 2267730-0001		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0086	00001.000	EA		2267730-5001	AUTO INSERTION TAPE FOR 2267730-0001						
0087	00005.000	EA		0972929-0375	CAP FIX CERAMIC 100 PF 10 & 200 V	QPL -M39014/01-1379					
0087A					C10 C11 C12 C13 C14						
DRAFTSMAN: DATE: CRO DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: LOCAL LINE MODULE APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM 2267730-0001 REV: G											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/06/80		PAGE 1 of		PART NUMBER LM 2267730-5001		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2267731-0001	PWB, LOCAL LINE MODULE						
0002	00001.000	EA		0222222-7400	NETWORK SN7400N	-SN7400N					
0002A					U33						
0003	00001.000	EA		0222222-7403	NETWORK SN7403N						
0003A					U13						
0004	00001.000	EA		0222222-7408	NETWORK-SN7408N						
0004A					U12						
0005	00001.000	EA		0222222-7148	NETWORK SN74148N						
0005A					U22						
0006	00002.000	EA		0972159-7265	NETWORK, SN74265N						
0006A					U5 U11						
0007	00002.000	EA		0972900-7404	NETWORK SN74LS04N						
0007A					L10 U18						
0008	00001.000	EA		0219402-7408	NETWORK SN74S08N	TI- -SN74S08N					
0008A					L44						
0009	00002.000	EA		0972900-7410	NETWORK SN74LS10N						
0009A					U4 U6						
0010	00001.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N					
0010A					U20						
0011	00003.000	EA		0972900-7135	NETWORK SN74LS139N	TI -SN74LS139N					
DRAFTSMAN: DATE: CRO DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO INSERTION TAPE FOR 2267730-0001 APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM 2267730-5001 REV: G											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/06/80		PAGE 2 of		PART NUMBER LM 2267730-5001		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0011A					L19 U25 U26						
0012	00002.000	EA		0972686-0001	NETWORK-QUAC MULTIPLEXER, SN74LS157N						
0012A					U40 U42						
0013	00001.000	EA		0572900-7174	NETWORK SN74LS174N						
0013A					U15						
0014	00004.000	EA		0972648-0001	NETWORK SN74LS251N						
0014A					U7 U16 U23 L24						
0015	00003.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N					
0015A					L3 L9 U17						
0016	00002.000	EA		0996136-0001	IC, SN74LS257N, DATA SELECTORS/MULTIPLEXER	TI -SN74LS257N					
0016A					L2 L8						
0018	00001.000	EA		0219402-7406	NETWORK SN74S86N						
0018A					U32						
0019	00001.000	EA		0219402-7163	NETWORK, SN74S163N						
0019A					U31						
0020	00001.000	EA		0219401-1107	NETWORK, SN75107N INTERFACE PIC						
0020A					U45						
0021	00001.000	EA		0996384-0001	IC, SN75112N DUAL LINE DRIVER						
0021A					U44						
0022	00002.000	EA		0972450-0001	NETWORK SN75189N QUAD LINE RECEIVER	001295-SN75189N					
DRAFTSMAN: DATE: CRO DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO INSERTION TAPE FOR 2267730-0001 APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM 2267730-5001 REV: G											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/06/80		PAGE 3 of		PART NUMBER LM 2267730-5001		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0022A					U41 U47						
0023	00002.000	EA		0556668-0001	IC, LINE DRIVER 9636TC	007263-9636TC					
0023A					U48 U49						
0024	00001.000	EA		0996033-0001	IC, TIMING DELAY NE556	TI -NE556					
0024A					U21						
0026	00001.000	EA		0996666-0001	IC, TL3524 CONTROLLER SWITCHING & RGLTR	001295-TL3524					
0026A					L43						
0031	00001.000	EA		0972946-0041	RES FIX 100 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0031A					R13						
0032	00002.000	EA		0972946-0043	RES FIX 120 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0032A					R9 R10						
0033	00003.000	EA		0972946-0049	RES FIX 220 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0033A					R8 R22 R24						
0034	00003.000	EA		0972946-0053	RES FIX 330 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0034A					R2 R23 R27						
0035	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0035A					R26						
0037	00002.000	EA		0972946-0059	RES FIX 560 OHM 5 & .25 W CARBON FILM	ROH - R-25					
0037A					R18 R19						
0038	00003.000	EA		0972946-0065	RES FIX 1.0K OHM 5 & .25 W CARBON FILM	ROH - R-25					
DRAFTSMAN: DATE: CRO DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO INSERTION TAPE FOR 2267730-0001 APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM 2267730-5001 REV: G											

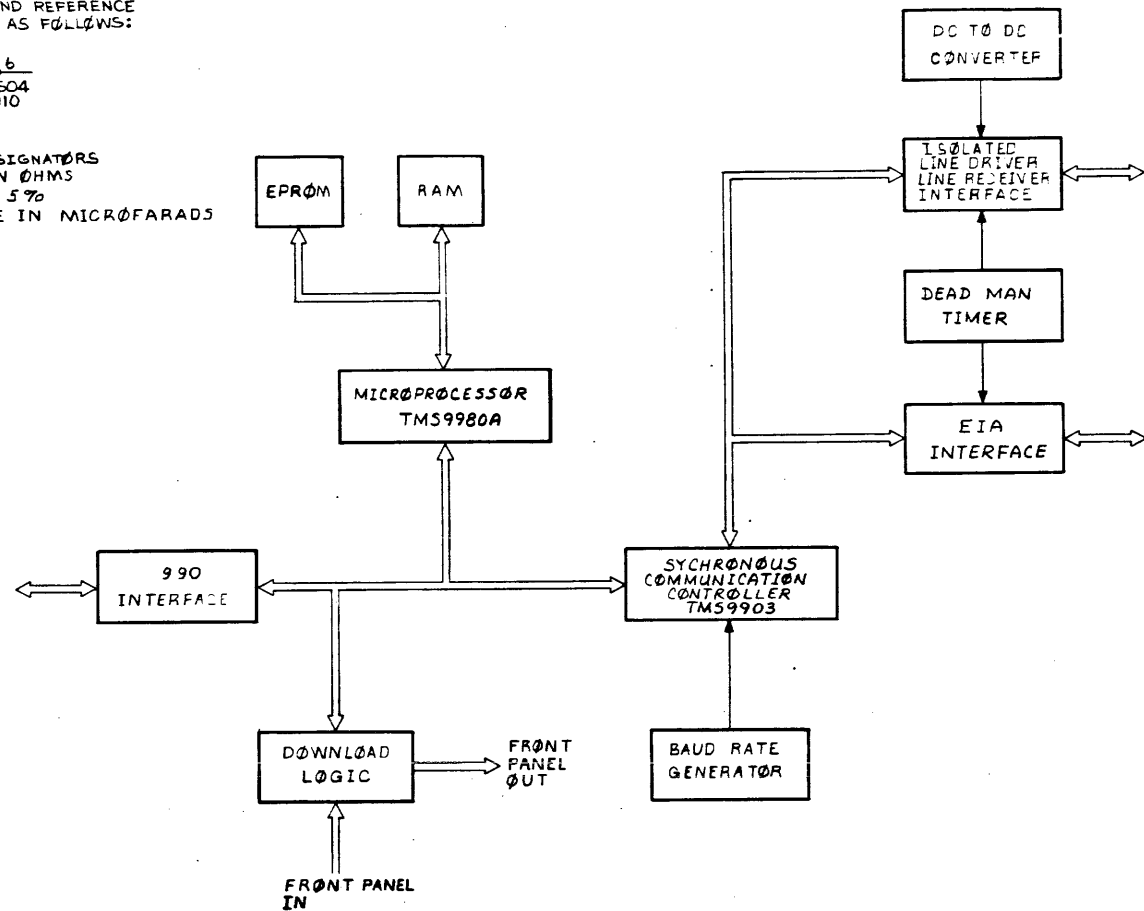
TEXAS INSTRUMENTS INCORPORATED		DATE 02/06/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 2267730-5001		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0038A					R14 R15 R16						
0039	00001.000	EA		0972946-0077	RES FIX 3.3K OHM 5 4 .25 W CARBON FILM	ROH	-	R-25			
0039A					R7						
0040	00002.000	EA		0972946-0069	RES FIX 1.5K OHM 5 4 .25 W CARBON FILM	ROH	-	R-25			
0040A					R4 R6						
0041	00002.000	EA		0972946-0091	RES FIX 12 K OHM 5 4 .25 W CARBON FILM	ROH	-	R-25			
0041A					R11 R12						
0042	00002.000	EA		0972946-0099	RES FIX 27 K OHM 5 4 .25 W CARBON FILM	ROH	-	R-25			
0042A					R5 R28						
0044	00001.000	EA		0972946-0143	RES FIX 1.8M OHM 5 4 .25 W CARBON FILM						
0044A					R1						
0045	00001.000	EA		0418760-0239	RES,FXD,CPSN,STYLE RCR20, 5.6 OHMS	039008	-	RCR20G5R6JS			
0045A					R20						
0047	00002.000	EA		0800110-0013	RESISTOR, FIXED-ARRAY, 4.7K						
0047A					U1 U27						
0051	00022.000	EA		0572763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%, -20%						
0051A					C24 THRU C45						
0052	00006.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 4 20 VOLT QPL	-M39003/1	-	2283			
0052A					C8 C16 C17 C18 C19 C20						
0053	00001.000	EA		0972924-0014	CAP FIX TANT SOLID 15 MFD 10 4 20 VOLT QPL	-M39003/1	-	2289			
DRAFTSMAN: _____ DATE: _____ CAD DRAFTSMAN: _____ DATE: _____ TITLE: _____ AUTO INSERTION TAPE FOR 2267730-0001 APPD. ENG. DATE: _____ APPD. PROJECT ENGINEER DATE: _____ RELEASED DATE: _____ PROJECT NO. _____ PART NUMBER: LM 2267730-5001 REV: G											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/06/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 2267730-5001		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0053A					C22						
0054	00001.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 4 15 VOLT QPL	-M39003/1	-	2271			
0054A					C2						
0058	00002.000	EA		0972268-0002	DIODE 1N4934-1 AMP	MOT	-	1N4934			
0058A					CR6 CR7						
0060	00001.000	EA		0972932-0001	DIODE 1N914E	SEE TI- DRAWING					
0060A					CR8						
DRAFTSMAN: _____ DATE: _____ CAD DRAFTSMAN: _____ DATE: _____ TITLE: _____ AUTO INSERTION TAPE FOR 2267730-0001 APPD. ENG. DATE: _____ APPD. PROJECT ENGINEER DATE: _____ RELEASED DATE: _____ PROJECT NO. _____ PART NUMBER: LM 2267730-5001 REV: G											

- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
 4. DEVICE TYPE, PIN NUMBERS AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



- 00 AND LS04 = DEVICE TYPE
 4, 5 AND 6 = PIN NUMBERS
 U0 AND U14 = REFERENCE DESIGNATORS
5. RESISTANCE VALUES ARE IN OHMS
 6. RESISTORS ARE 1/4 WATT, 5%
 7. CAPACITANCE VALUES ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED
- OPTIONAL COMPONENTS



REV STATUS OF SHEETS	REV	C			B	C			
	SH	1	2	3	4	5	6	7	8

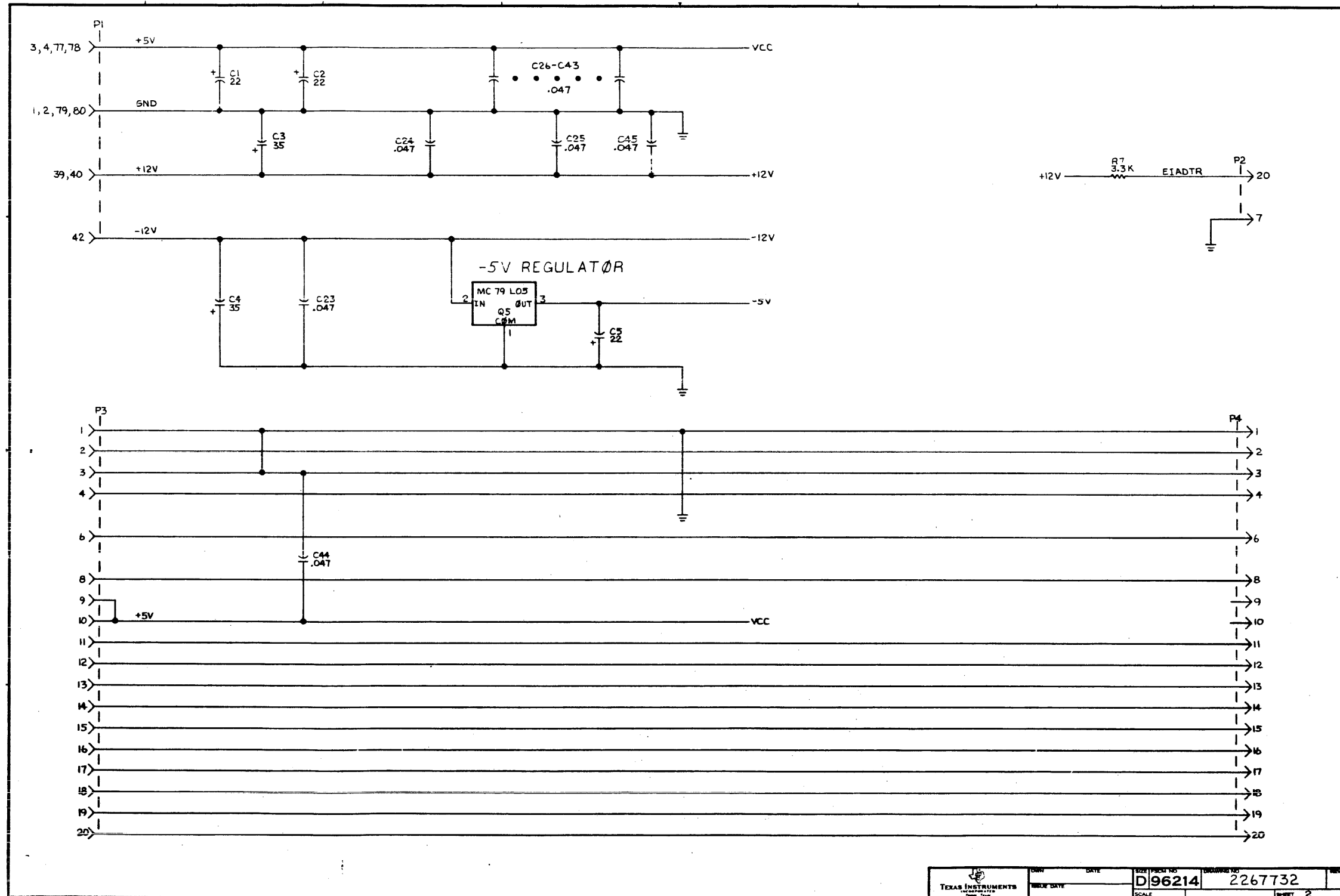
SPARES		
DEVICE	LOCAT.	PIN NUMBER
4.7K RES	U1	1,2,9,10,12,13,14
LS10	U6	1,2,12,13
4.7K RES	U27	4
SN75189	U47	4,5,6,8,9,10,11,12,13

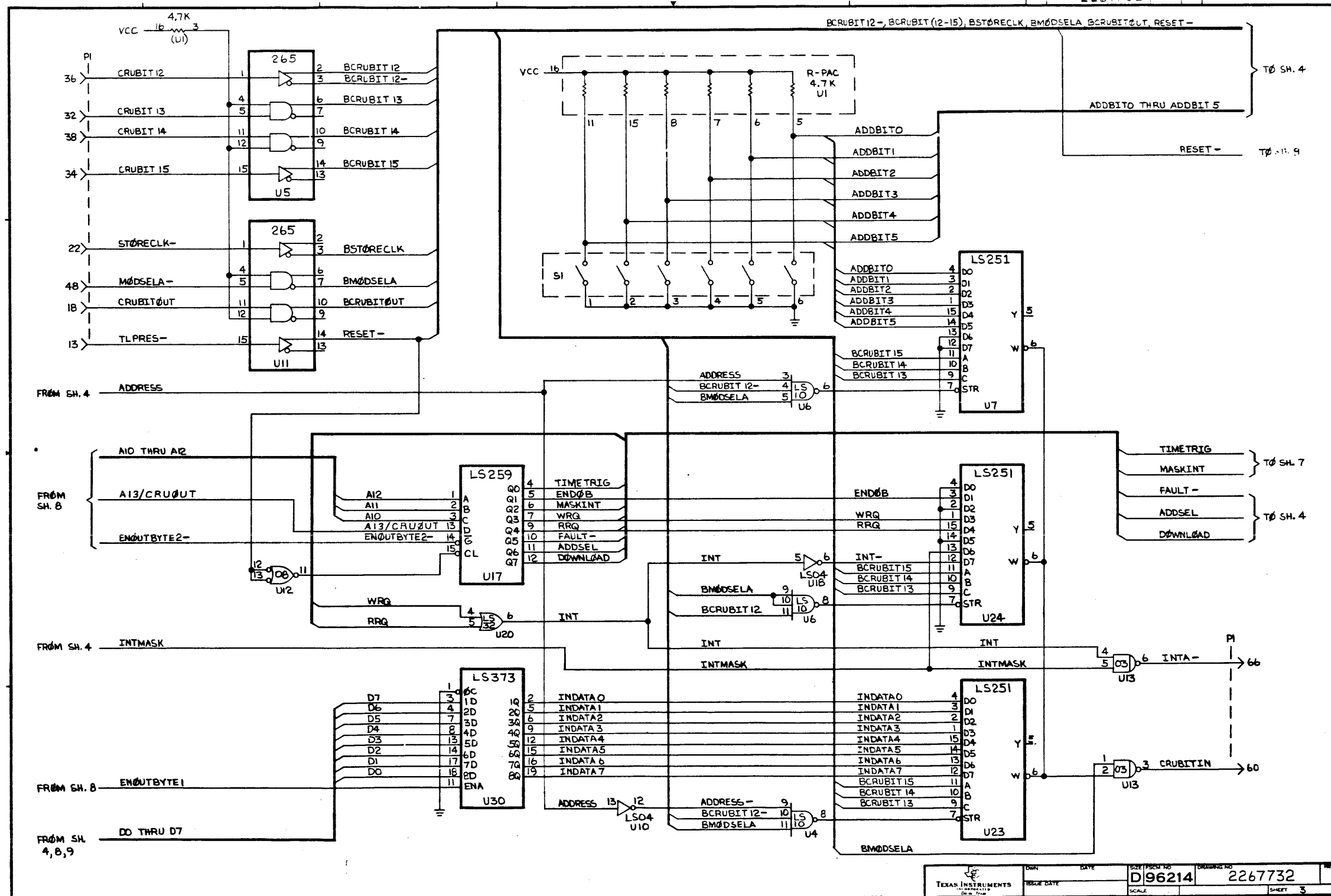
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	1) AT1, AT2, AT3, CHANGED FROM TIL111 TO TIL117 2) R4, R5 CHANGED FROM 4.7K TO 680	6/12/79	
FORMAL RELEASE			
B	01.469944 (C)1	7-31-79	E. Keeler
C	CN 435545 (D)1	8-2-80	

SEQ NO	IDENT	F. SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES
		PROCESS			

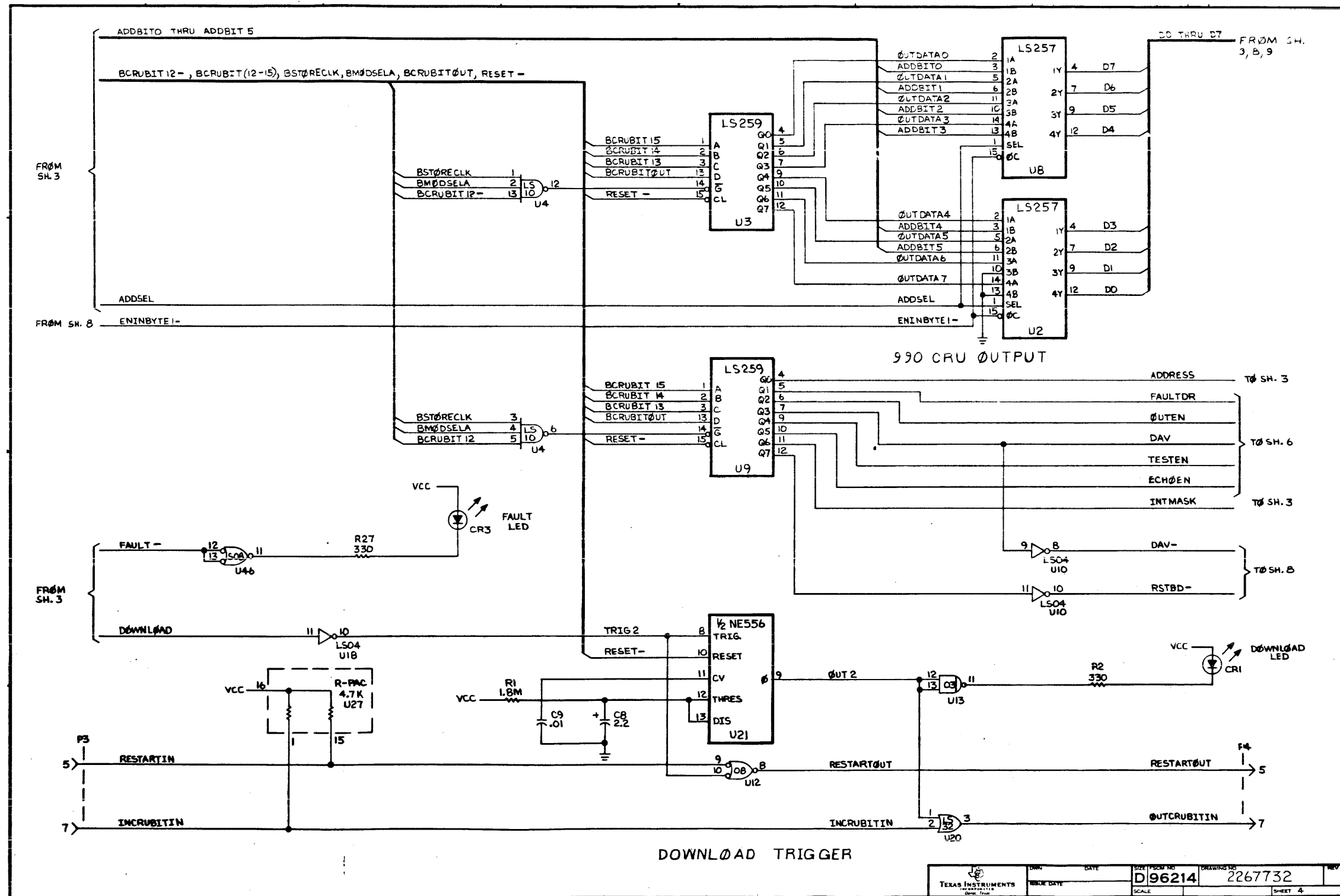
PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE TI DRAWING 729467

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
			DATE: 4/25/79	 TEXAS INSTRUMENTS INCORPORATED Dallas, Texas	
			BY: C. KEELER 6-13-79		
			DATE: 6-15-79	LOGIC DIAGRAM, LOCAL LINE MODULE	
			BY: Mike Bunnag 6-15-79		
			DATE: 6-21-79	SHEET NO: D96214 DRAWING NO: 2267732 SCALE: SHEET 1 OF 9	
			BY: Long Bailey 6-21-79		
2267730	7067				
UNLESS OTHERWISE SPECIFIED: • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02 • INTERPRET DRAWING PER MIL-Q1000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS .010 P/M • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHESES INFO FOR REF ONLY					
HOLE TOLERANCE: .013 THRU .004 126 THRU .005 .251 THRU .006 .125 - .001 .250 - .001 .500 - .001 .501 - .008 .751 - .010 1.001 THRU .012 THRU .001 1.000 - .001 2.000 - .001					

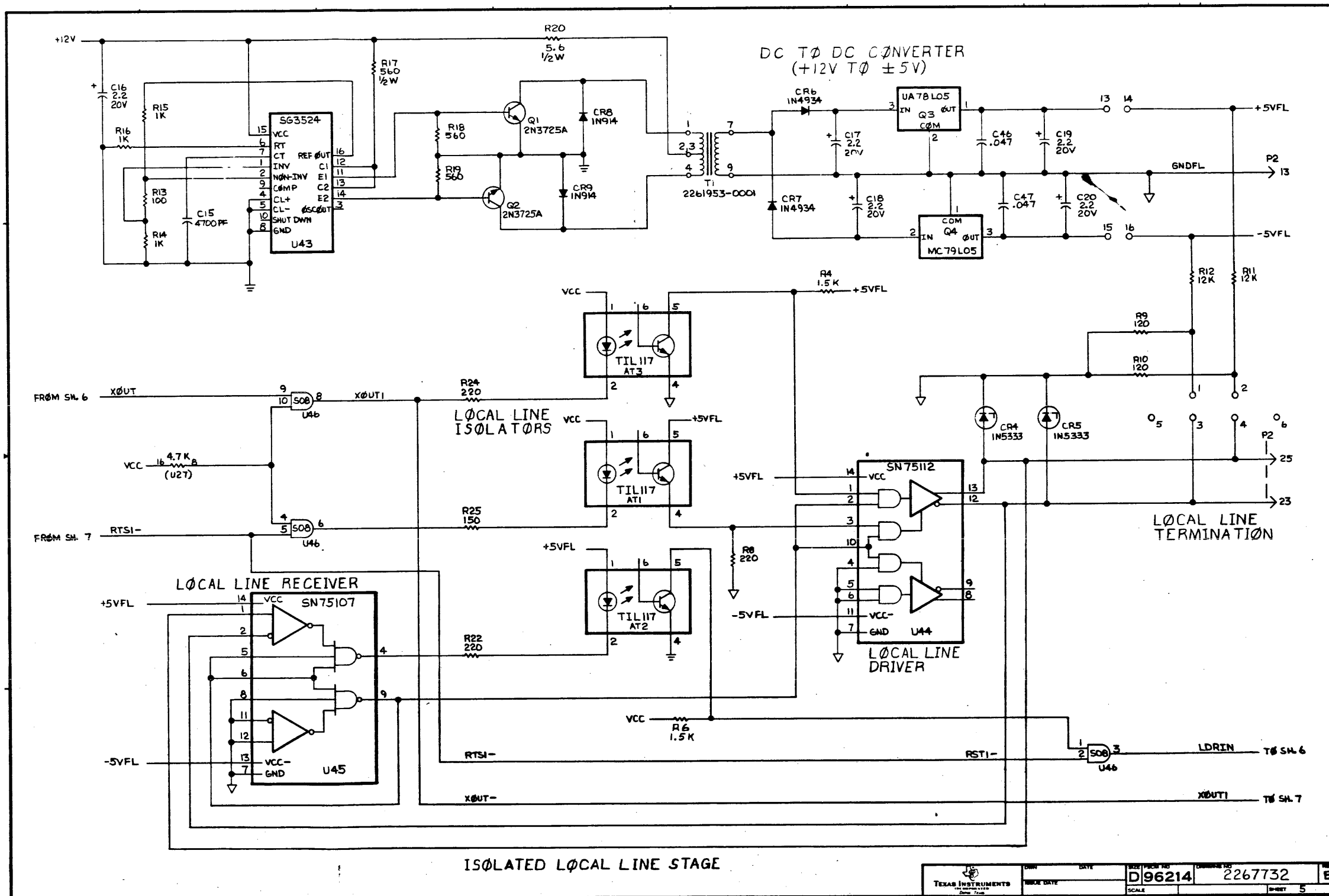




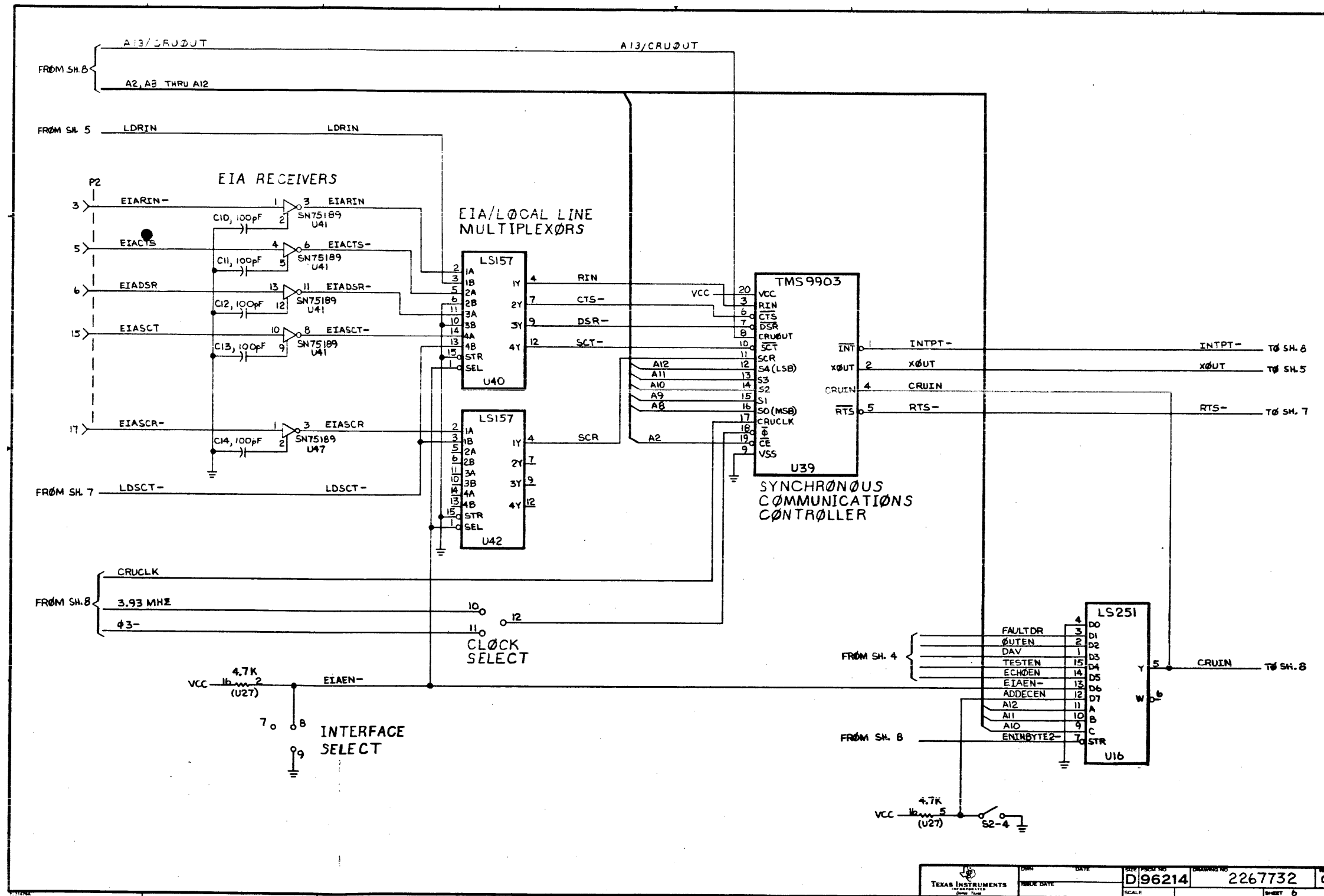
DATE	ISSUE DATE	SIZE (PAPER NO.)	DRAWING NO.
		D 96214	2267732
SCALE	SHEET	3	

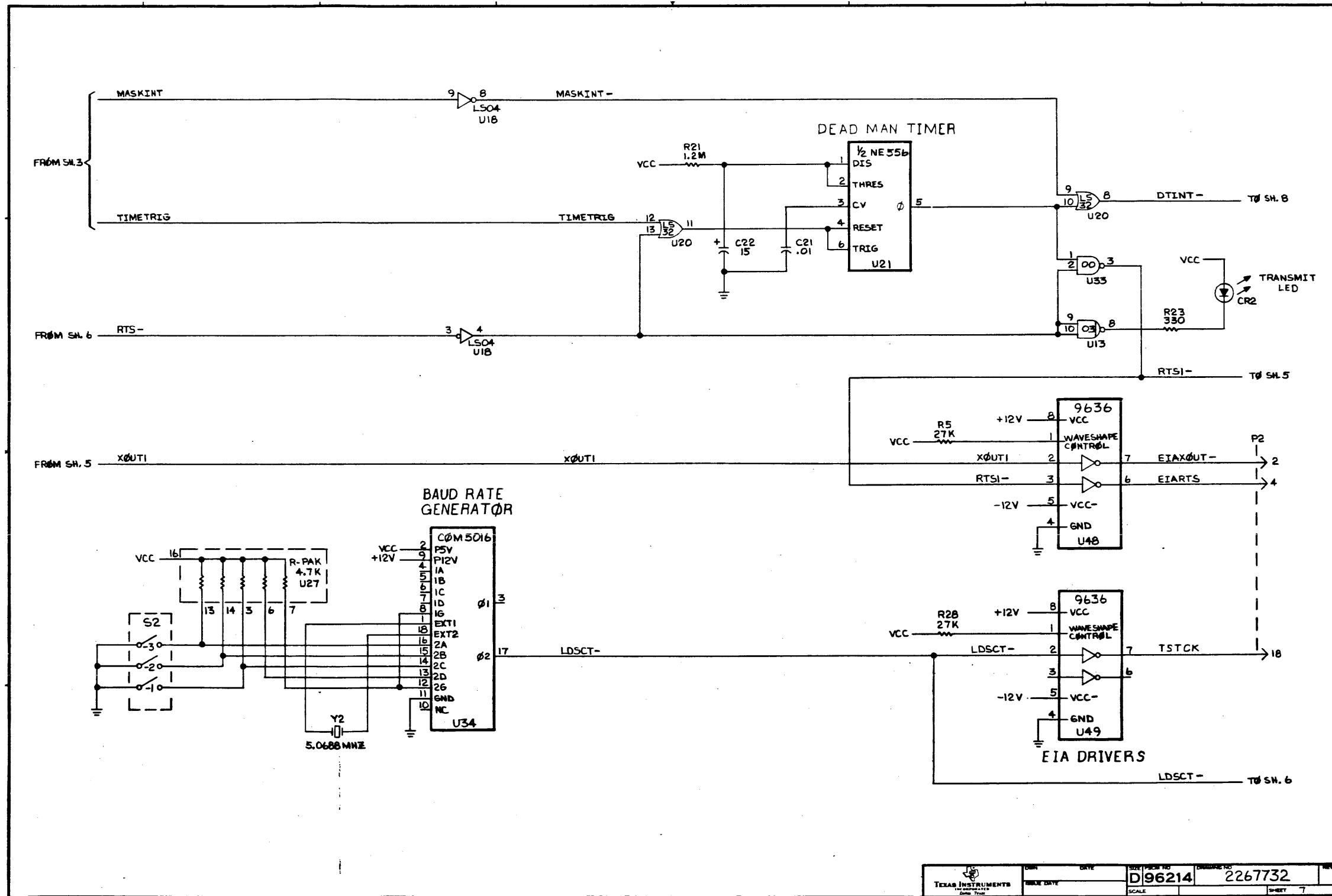


DATE	SIZE / SCAL NO	DRAWING NO	REV
ISSUE DATE	D 96214	2267732	
SCALE			SHEET 4

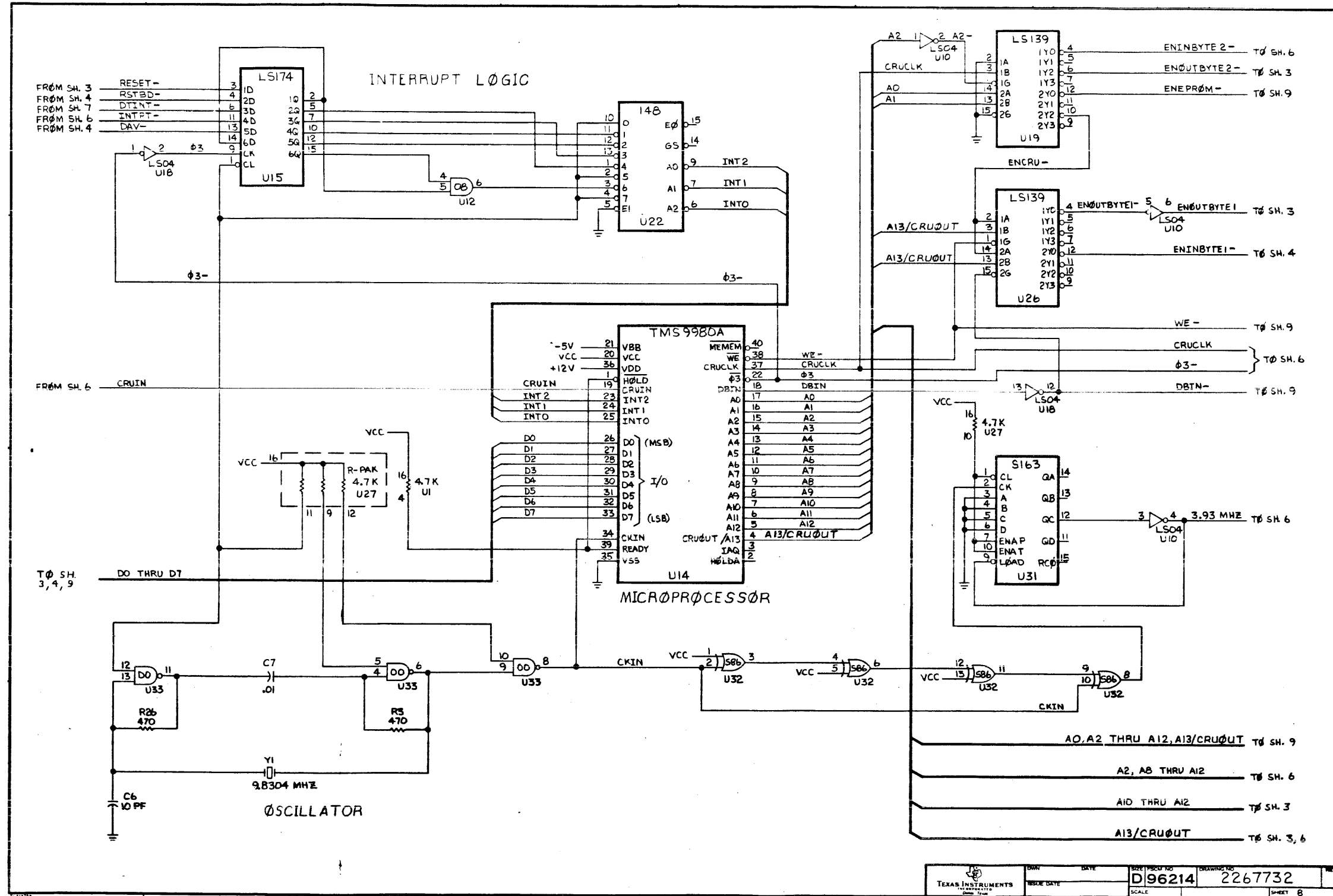


DATE	REV	DATE	REV
D96214		2267732	
SCALE		SHEET	5

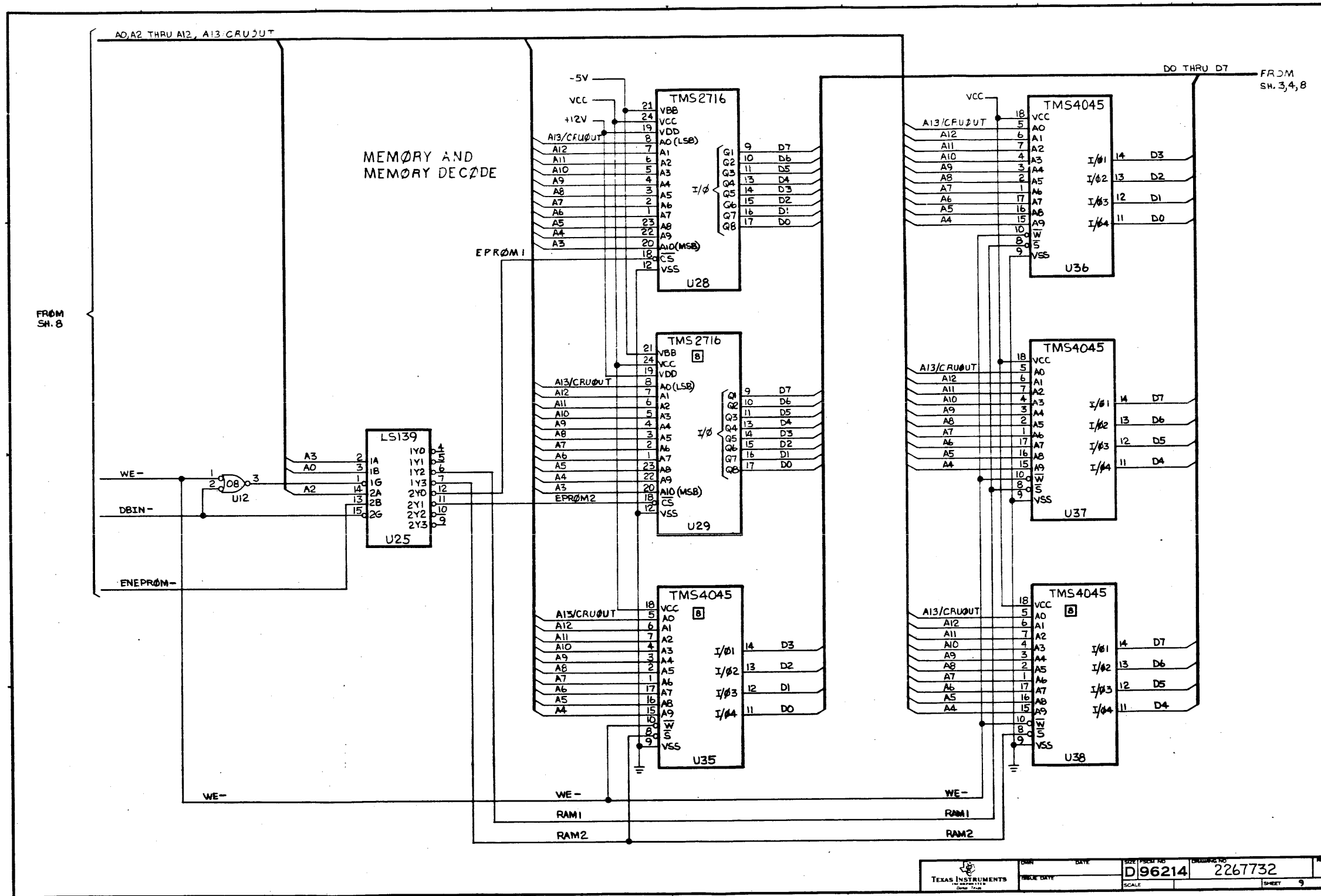




DESIGNED BY	DATE	SIZE / SHEET NO.	DESIGN NO.
TEXAS INSTRUMENTS		D96214	2267732
SCALE			SHEET 7



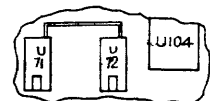
DATE	REV	BY	CHKD	DATE	REV	BY	CHKD	DATE	REV
DRAWING NO.		D96214		DRAWING NO.		2267732			
SCALE				SHEET		8			



TEXAS INSTRUMENTS	DATE	DESIGN NO.	REV.
SCALE	DATE	D96214	2267732
			SHEET 9

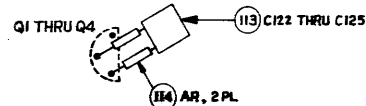
NOTES CONT:

2. MAXIMUM COMPONENT HEIGHT FROM COMPONENT SIDE OF BOARD IS .500
3. MOUNT ITEM 100 (SCREW) FROM CONDUCTOR SIDE OF BOARD. FLAT WASHER NOT REQD.
4. INSTALL ITEMS 31, 70, 71, 72 + 73 (TMX 9900 AND 2.5V'S) IN UNIT TEST
5. INSTALL ITEM 105 (NYLON WASHER) UNDER MIDDLE SCREW (CONDUCTOR SIDE) MOUNTING TOP STIFFENER
6. ROM'S, ITEMS 70, 71, 72 AND 73 ARE MARKED WITH THE FOLLOWING INFORMATION: 996263-0001 IS MARKED WITH "4722"; 996263-0002 IS MARKED WITH "4723"; 996263-0003 IS MARKED WITH "4724"; 996263-0004 IS MARKED WITH "4725"
7. INSTALL JUMPER PLUG ITEM 96 IN THE FOLLOWING LOCATIONS. CONFIGURATION:
E9 TO E10
E7 TO E8
8. TO USE A TMX9900 IN LOCATION U104, ADD U111 (PN 972872-3) AND CR5 (PN 231784-6000) AND PLACE JUMPER PLUG (ITEM 96) BETWEEN E11 AND E12 AFTER CUTTING ETCH FROM E12 TO +5V.
9. REWORK ALL REV E RAW PWB'S AS FOLLOWS:
1. CUT ETCH FROM U84-12
2. CUT ETCH FROM U104-32
3. CUT ETCH FROM U103-2 TO U88-8
4. ADD WIRE FROM U84-12 TO U84-13
5. ADD WIRE FROM U103-2 TO U40-3
6. ADD WIRE FROM U104-32 TO U104-33
7. REMOVE R33 AND R34 AND S1
10. ITEM 111 IN -0001 L/M CONSISTS OF COMPONENTS WHICH ARE AUTO-INSERTED AND CONTAINED IN THE -5001 L/M
11. REWORK FOR ASSEMBLIES USING PWB REV "J" AND PRIOR REV LEVELS:
▲ ADD JUMPER WIRE, ITEM 112, FROM U71-8 TO U72-8



12. BEFORE FINAL TIGHTENING OF SCREW (ITEM 5) ENSURE STIFFENER BRACKET (ITEM 4) AND INSULATOR (ITEM 3) DO NOT OBSTRUCT ALIGNMENT HOLE, UPPER LEFT CORNER OF PWB

13. REWORK FOR PWB 945941 REV J AND LOWER
A. INSTALL C122 THRU C125 ON TRANSISTORS Q1 THRU Q4 BETWEEN EMITTER AND BASE ON CONDUCTOR SIDE AS SHOWN.



REV	DATE	DESCRIPTION	APPROVED
L	01-21-77	ADDED NOTE 12... REV LEVEL BLOCK	J. R. Hoff
M	5-16-78	ADDED NOTE 12 AND FLAG 12 TO FDI(2) REV LEVEL BLOCK	J. R. Hoff
N	1-28-78	ON 442357(C) (1) ON -5001 L/M ITEM 804 QTY WAS 2, DELETED R32 (3) ON -5001 L/M, ITEM 504 WAS 3, THE C90, C93 THE C98, C18, C19, C20 QTY 99 (3) ON -0001 L/M MADE THE FOLLOWING CHANGES: ITEM 60 QTY WAS 3; ITEM 66: ADDED 23 C99 TO DESC.; ITEM 80 QTY WAS 2; ITEM 81A ACC'D R32 TO DESC. UPDATED REV LEVEL BLOCK	J. R. Hoff
P	9-14-78	CN 442729 (C) B. BOHL (1) NOTE 11 WAS REV'G (2) UPDATED REV LEVEL BLOCK	J. R. Hoff
R	10-9-78	CN 442305 (D) & Rev (1) ON LM ITEM 95, PN WAS 972742-1 (2) UPDATED REV LEVEL BLK (3) REVISED ELECTOR PICTORIAL TWO PLACES	E. Wang
T	11-30-78	CN 442758 (B) 77 DILL (1) ADDED REWORK NOTE 13 (2) ADDED ITEMS 113 & 114 TO L/M (3) UPDATED REV LEVEL BLOCK	J. R. Hoff
U	11-30-78	CN 442345 (C) F. M. L. (1) ON NOTE 13, CAPACITOR WAS REARRANGED (2) UPDATED REV LEVEL BLOCK	J. R. Hoff
V	4-4-79	CN 448303 (C) L. T. H. (1) NOTE 13 A. REF DESC C122 THRU C125 WAS CHG THRU C121 (2) LM ITEM 113 REF DESC C122 THRU C125 WAS CHG THRU C121 (3) LM -5001 ITEM 60 ADDED REF DESC C18 C19 AND C120 (4) UPDATED REV LEVEL BLOCK	J. R. Hoff
W	4-4-79	CN 445193 (D) R. E. L. (1) ON -0001 L/M ITEM 8 WAS 5395 44-5, ITEM 9 WAS 5395 44-7, ITEM 83 WAS 5395 44-2 (2) UPDATED REV LEVEL BLOCK	J. R. Hoff
Y	7-31-79	CN 441340 (C) C. E. L. (1) (1) REVISED PER EXTENSIVE ENGR CHANGES (2) UPDATED REV LEVEL BLOCK	E. Wang
AA	11-1-79	CN 433596 (C) R. E. L. (1) C-8 NOTE 11 WAS REV'G (2) NOTE 13 WAS REV'G (3) UPDATED REV LEVEL BLOCK	E. Wang
AB	10-2-79	CN 456171 (D) J. M. L. (1) UPDATED REV LEVEL BLOCK	J. R. Hoff
AC	2-8-80	CN 456125 (D) J. M. L. (1) ADDED FLAT WASHER... TO NOTE 3 (2) UPDATED REV LEVEL BLOCK	J. R. Hoff

945940-5001	AUTO-INSERTION TAPE FOR 945940-0001
945940-0001	FLOPPY DISC CONTROLLER
PART NUMBER	DESCRIPTION

TP 945909	A	A	A	A	A	A	A	A	B	
LOGIC 945942	D	D	D	D	D	D	D	D	D	
PWB 945941	H	H	H	H	J	J	J	J	K	
ASSY 945940	P	R	T	U	V	W	Y	AA	AB	AC

SIZE	CODE IDENT NO	DRAWING NO
D	96214	0-534
SCALE	1:1	SHEET 2

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945940-0001		REV ACB	
DATE 05/09/79									
ITEM NO.	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0002	REF	EA		0945942-9901	LOGIC, FLOPPY DISK CONTROLLER				
0003	00002.000	EA		0944954-0001	INSULATOR, PMB, 141M				
0004	00002.000	EA		0945239-0001	BRACKET-STIFFENER, PMB, 141M				
0005	00006.000	EA		0972686-0002	SCREW, THD FRMG, HEX WSHR HD, 2-56X1/4 LG				
0006	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PMB				
0008	00004.000	EA		2210188-0004	SOCKET, LOW PROFILE, DIP, 8 CONT, 18 PINS	003612-DILB18P-108			
0008A					XU76 XU77 XU91 XU92				
0009	00004.000	FA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-DILB24P-108			
0009A					XU74 XU75 XU89 XU90				
0010	00001.000	EA		0945244-0001	SOCKET, INTEGRATED CIRCUIT, 64 PIN				
0010A					XU104				
0011	00001.000	EA		0972137-0001	CONNECTOR, PC-HEADER 20 CONTACT	BE1 - 65483-001			
0011A					P5				
0012	00001.000	FA		0972137-0005	CONNECTOR, PC 50 PIN	BE1 - 65483-005			
0012A					P4				
0016	00002.000	EA		0222222-7150	NETWORK SN74150N				
0016A					U9 U57				
0017	00001.000	EA		0222222-7154	NETWORK SN74154N	-SN74154N			
0017A					U26				
0023	00001.000	EA		0222222-7438	NETWORK SN7438N				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
APPROVED		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		
							7508	LM0945940-0001 ACB	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945940-0001		REV ACB	
DATE 05/09/79									
ITEM NO.	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0023A					U100				
0031	00001.000	EA		0972671-0001	NETWORK, MICROPROCESSOR, TMS9900				
0031A					U104				
0037	00001.000	EA		0972456-0002	PIN, .025 SQUARE	BE1 - 75481-002			
0037A					TP1				
0048	00001.000	FA		0996138-0001	IC, SN74LS260N 2-INPUT EXCLUSIVE-NOR GATE	TI -SN74LS260N			
0048A					U101				
0051	00002.000	EA		0996057-0001	IC, 8-BIT INPUT/OUTPUT PORT				
0051A					U10 U27				
0052	00004.000	EA		0996214-0003	IC, TMS4042-2NL 256 WORD X 4-BIT	TI -TMS4042-2NL			
0052A					U76 U77 U91 U92				
0053	00001.000	EA		0996226-0001	IC, MC8506P, POLYNOMIAL GENERATOR	MOT -MC8506P			
0053A					U4				
0060	00005.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%				
0060A					C91 C92 C121 C23 C39				
0061	00005.000	EA		0972927-0037	CAP FIX NICA 500V 270 PF 5 %	QPL -CM05E271J00			
0061A					C103 C104 C105 C106 C117				
0064	00001.000	EA		0972965-0012	CAP FIX CERAMIC .010 MF 10% 200V	QPL - CK048X103K			
0064A					C102				
0065	00001.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL -H39003/1-2301			
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
APPROVED		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		
								LM0945940-0001 ACB	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0945940-0001		REV ACB	
DATE 05/09/79									
ITEM NO.	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0065A					C113				
0066	00001.000	EA		0972927-0019	CAP FIX NICA 500V 47.0 PF 5 %	QPL -CH05E470J00			
0066A					C101				
0068	00001.000	EA		0226591-0001	CRYSTAL UNIT, QUARTZ 12MHZ +/- .05%				
0068A					Y1				
0070	00001.000	FA		0996263-0001	IC, ZA4722, 1024 WORD X 8-BIT ROM PREPGME	001295-ZA4722			
0070A					U75				
0071	00001.000	EA		0996263-0003	IC, ZA4724, 1024 WORD X 8-BIT ROM PREPGME	001295-ZA4724			
0071A					U74				
0072	00001.000	FA		0996263-0002	IC, ZA4723, 1024 WORD X 8-BIT ROM PREPGME	001295-ZA4723			
0072A					U90				
0073	00001.000	FA		0996263-0004	IC, ZA4725, 1024 WORD X 8-BIT ROM PREPGME	001295-ZA4725			
0073A					U89				
0076	00004.000	EA		0972424-0002	XISTOR, NPN SILICON, A5T4261				
0076A					Q1 Q2 Q3 Q4				
0079	00002.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH - R-25			
0079A					R42 R43				
0080	00003.000	EA		0972946-0081	RES FIX 4.7K OHM 5% .25 W CARBON FILM	ROH - R-25			
0080A					R30 R31 R32				
0083	00001.000	FA		2210188-0003	SOCKET, LOW PROFILE, DIP, 7 CONT, 16 PINS	003612-DILB16P-108			
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
APPROVED		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		
								LM0945940-0001 ACB	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0945940-0001		REV ACB	
DATE 05/09/79									
ITEM NO.	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0083A					XU4				
0084	00003.000	EA		0972537-0003	DIODE, LED RED RT ANGLE	072619-550-0406			
0084A					CR2 CR3 CR4				
0085	00001.000	EA		0972537-0002	DIODE, LED GREEN RT ANGLE	072619-550-0206			
0085A					CR1				
0087	00001.000	EA		0972499-0001	NETWORK, LM320T-5.0/MC7905CP, -5 VOLT	SEE - TI DRAWING			
0087A					U110				
0095	00012.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75060-007			
0095A					E1 THRU E17				
0096	00002.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH				
0096A					P1, P2				
0099	00004.000	EA		0418356-2261	CAP FIX 100 MF 10V 10% TANTALUM SOLID	QPL -H39003/1-2261			
0099A					C99 C100 C112 C114				
0100	00001.000	EA		0972988-0027	SCREW 6-32 X .312 PAN HEAD CPES				
0101	00001.000	EA		0411115-0064	NUT, PLAIN 6-32 UNC-2B HEX CRES	QPL - M535649-264			
0102	00001.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - M535333-71			
0103		EA		0996069-0003	ADH, SOLID, THRMPLSTC 750 BAG ANAEROBIC	PERSAL-917-6302			
0104	00000.250	FT		0411634-1310	SLFFVE, PVC, .133 DIA. CLEAR	QPL - MIL-1-631			
0105	00001.000	EA		0418730-0101	WASHER, NYLON				
0107	REF	EA		0945909-9901	UNIT TEST PROC, FLEXIBLE DISC CONTROLLER				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
APPROVED		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		
								LM0945940-0001 ACB	

TEXAS INSTRUMENTS INCORPORATED		DATE 05/09/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0945940-0001		REV ACW		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0108	REF	EA		0945920-9901	SPEC.990 FLEXIBLE DISC DRIVE CONTROLLER							
0111	00001.000	FA		0945940-5001	AUTO-INSERTION TAPE FOR 945940-0001							
0112	00000.100	FT		2210083-0003	WIRE,ELEC,COND 11/L STYLE 1213,24 AWG	090484-WTE24A						
0113	00004.000	EA		0972929-0367	CAP FIX CERAMIC 22.0 PF 10 X 200 V	QPL -M39014/01-1367						
0113A					C122 THRU C125							
0114	00000.100	FT		0410499-0006	INSULATION SLEEVING,TEFLON #22 NATURAL	QPL -81349						
DRAFTSMAN				DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY,PWB,FLOPPY DISK CONTROLLER			
APPROV. MFG.				DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
				DATE		DATE		DATE	PART NUMBER LM0945940-0001			
				DATE		DATE		DATE	REV ACW			

TEXAS INSTRUMENTS INCORPORATED		DATE 05/09/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945940-5001		REV ACW		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0945941-0001	PWB,FLOPPY DISC CONTROLLER							
0013	00001.000	FA		0219402-7133	NETWORK SN74LS133N							
0013A					U15							
0014	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N						
0014A					U85 U95							
0015	00001.000	FA		0222222-7123	NETWORK SN74123N							
0015A					U5							
0018	00003.000	EA		0222222-7161	NETWORK SN74161N	-SN74161N						
0018A					U79 U80 U94							
0019	00008.000	FA		0222222-7173	NETWORK SN74173N							
0019A					U14 U16 U31 U33 U45 U46 U62							
0019B					U63							
0020	00008.000	EA		0222222-7195	NETWORK SN74195N							
0020A					U13 U17 U30 U34 U44 U47 U61							
0020B					U64							
0021	00001.000	FA		0222222-7400	NETWORK SN7400N	-SN7400N						
0021A					U22							
0022	00001.000	EA		0222222-7407	NETWORK-SN7407N	TI- -SN7407N						
0022A					U54							
0023	00003.000	EA		0222222-7438	NETWORK SN7438N							
DRAFTSMAN				DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO-INSERTION TAPE FOR 945940-0001			
APPROV. MFG.				DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
				DATE		DATE		DATE	PART NUMBER LM0945940-5001			
				DATE		DATE		DATE	REV ACW			

TEXAS INSTRUMENTS INCORPORATED		DATE 05/09/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945940-5001		REV ACW		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0023A					U25,U83,U99							
0024	00001.000	FA		0222222-7445	NETWORK-SN7445N	SEE - TI DRWG.						
0024A					U106							
0025	00001.000	FA		0222222-7497	NETWORK SN7497N							
0025A					U1							
0026	00002.000	FA		0537947-0001	NETWORK SN75154N	TI -SN75154N						
0026A					U93 U108							
0029	00001.000	FA		0222222-7404	NETWORK SN7404N							
0029A					U78							
0030	00002.000	FA		0972668-0001	NETWORK SN74LS251N							
0030A					U102 U103							
0032	00002.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N							
0032A					U3 U51 U52							
0033	00004.000	EA		0972749-0001	NETWORK, SN74LS08N							
0033A					U6 U69 U84 U07							
0034	00001.000	FA		0972787-0001	NETWORK SN74LS365N							
0034A					U8							
0035	00001.000	EA		0972788-0001	NETWORK,SN74LS11,POSITIVE AND GATE							
0035A					U23							
0036	00001.000	FA		0972813-0001	NETWORK-SN74LS21N							
DRAFTSMAN				DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO-INSERTION TAPE FOR 945940-0001			
APPROV. MFG.				DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
				DATE		DATE		DATE	PART NUMBER LM0945940-5001			
				DATE		DATE		DATE	REV ACW			

TEXAS INSTRUMENTS INCORPORATED		DATE 05/09/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0945940-5001		REV ACW		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0036A					U58							
0038	00005.000	FA		0972900-7174	NETWORK SN74LS174N							
0039A					U12 U29 U35 U48 U82							
0039	00002.000	FA		0972900-7175	NETWORK SN74LS175N							
0039A					U18 U60							
0040	00004.000	EA		0996023-0001	IC,LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N						
0040A					U71 U72 U86 U87							
0041	00006.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N						
0041A					U2 U37 U50 U67 U81 U88							
0042	00001.000	FA		0972900-7402	NETWORK SN74LS02N							
0042A					U105							
0043	00003.000	FA		0972900-7404	NETWORK SN74LS04N							
0043A					U20 U24 U73							
0044	00001.000	FA		0972900-7410	NETWORK SN74LS10N							
0044A					U19							
0045	00002.000	FA		0972500-7432	NETWORK SN74LS32N	TI -SN74LS32N						
0045A					U39 U56							
0046	00002.000	EA		0972900-7451	NETWORK SN74LS51N	TI -SN74LS51N						
0046A					U36 U97							
0047	00008.000	FA		0972900-7474	NETWORK SN74LS74N							
DRAFTSMAN				DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO-INSERTION TAPE FOR 945940-0001			
APPROV. MFG.				DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.			
				DATE		DATE		DATE	PART NUMBER LM0945940-5001			
				DATE		DATE		DATE	REV ACW			

TEXAS INSTRUMENTS INCORPORATED		DATE 05/09/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0945940-5001		REV ACB	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047A					U21 U41 U42 U53 U65 U68 U96						
0047B					U98						
0049	00004.000	EA		0996147-0001	IC, SN74LS395N SHIFT REG 4-BIT	TI	-SN74LS395N				
0049A					U11 U28 U43 U59						
0050	00002.000	FA		0972670-0001	NETWORK SN75322N						
0050A					U55 U170						
0054	00001.000	FA		0972525-0001	NETWORK, RESISTOR 28 ELEMENT 16 PIN DIP	BEC	--898-5-F 220/3				
0054A					U109						
0055	00004.000	FA		0972946-0025	RES FIX 22.0 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0055A					F23 R24 R25 R26						
0056	00004.000	FA		0972946-0055	RES FIX 390 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0056A					R9 R10 R11 R12						
0057	00002.000	FA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0057A					R7 R8						
0060	00007.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%						
0060A					C1 THRU C22, C24 THRU C38,						
0060B					C40 THRU C90, C93 THRU C98						
0060C					C118, C119, C120						
0078	00001.000	EA		0972946-0100	RES FIX 30 K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0078A					R1						
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO-INSERTION TAPE FOR 945940-0001				
APP'D. MFG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM0945940-5001				

TEXAS INSTRUMENTS INCORPORATED		DATE 05/09/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0945940-5001		REV ACB	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0079	00010.000	FA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0079A					R3 R4 R5 R6 R13 R28 R29						
0079B					R40 R41 R44						
0080	00001.000	FA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0080A					R2						
0086	00003.000	FA		0972946-0047	RES FIX 180 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0086A					R35 R37 R38						
0092	00001.000	EA		0222222-7408	NETWORK-SN7408N						
0092A					U49						
0093	00001.000	FA		0222222-7474	NETWORK SN7474N	-SN7474N					
0093A					U38						
0094	00001.000	FA		0222222-7425	NETWORK SN7425N						
0094A					U32						
0106	00001.000	FA		0219402-7400	NETWORK SN74500N						
0106A					U40						
0109	00001.000	EA		0972946-0091	RES FIX 12 K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0109A					R45						
0110	00001.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0110A					R36						
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO-INSERTION TAPE FOR 945940-0001				
APP'D. MFG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM0945940-5001				

NOTES:

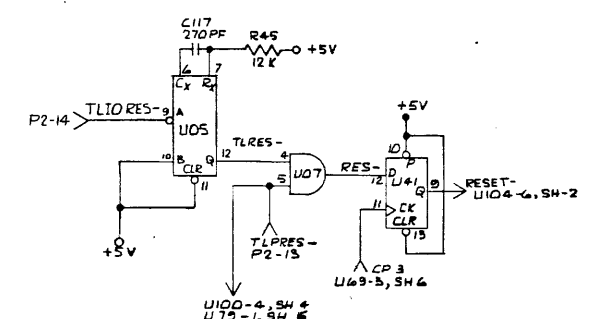
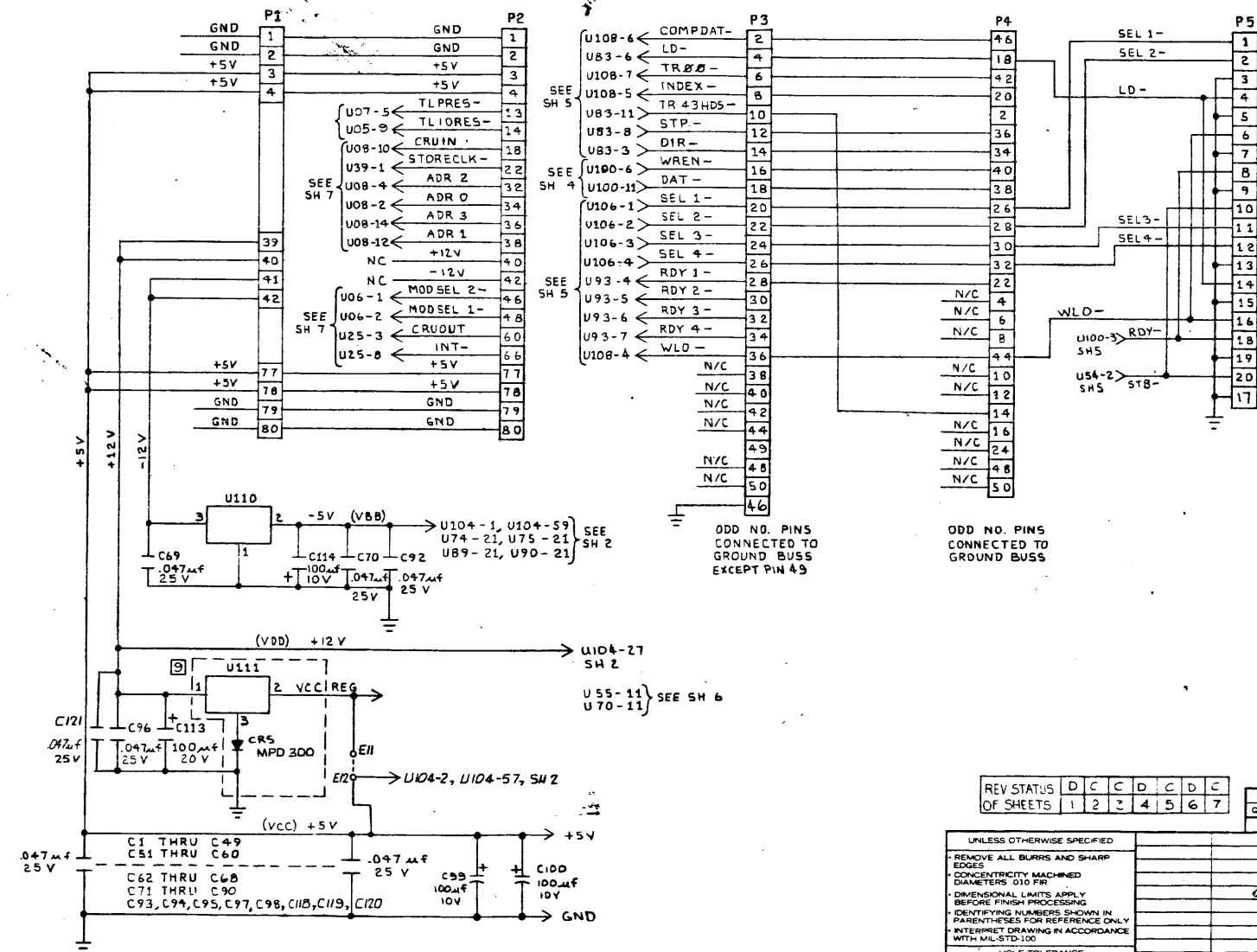
1. ALL RESISTORS ARE 1/4 W.
2. RESISTANCE VALUES ARE IN OHMS.
3. THE FOLLOWING NETWORKS HAVE PIN 7 CONNECTED TO GND AND PIN 14 CONNECTED TO +5V (VCC): U2, U6, U07, U19, U20, U21, U22, U23, U24, U25, U32, U36, U37, U38, U39, U40, U41, U42, U49, U50, U53, U54, U55, U58, U65, U67, U68, U69, U70, U73, U78, U81, U83, U84, U88, U96, U97, U93, U99, U100, U101, U105.

4. THE FOLLOWING NETWORKS HAVE PIN 8 CONNECTED TO GND AND PIN 16 CONNECTED TO +5V (VCC): U1, U3, U4, U5, U8, U11, U12, U13, U14, U15, U16, U17, U18, U28, U29, U30, U31, U33, U34, U35, U43, U44, U45, U46, U47, U48, U51, U52, U59, U60, U61, U62, U63, U64, U71, U72, U79, U80, U82, U85, U86, U87, U93, U94, U95, U102, U103, U104, U107, U108.

5. THE FOLLOWING NETWORKS HAVE PIN 12 CONNECTED TO GND AND PIN 24 CONNECTED TO +5V (VCC): U9, U10, U26, U27, U57, U74, U75, U89, U90.
6. SPARE JUMPER PLUGS ARE PROVIDED BETWEEN E74 EB AND E94 EID.

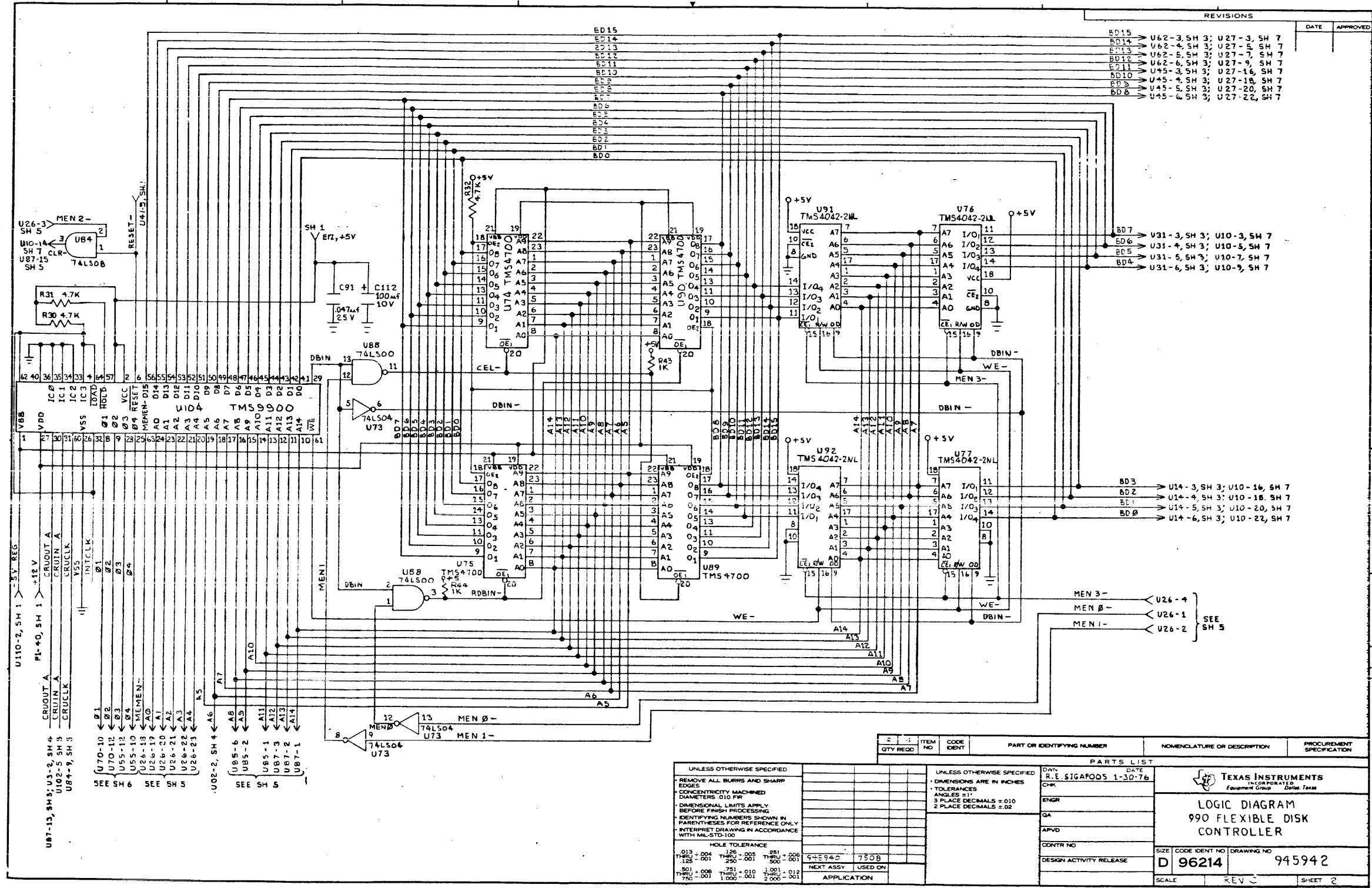
7. WITH VENDOR NO. 1, AS REFERENCED BY 945910, U107 IS OMITTED, U107-6 TO U107-7 IS JUMPERED, P4 IS INSTALLED AND P3 OMITTED.
8. WITH VENDOR NO. 2, AS REFERENCED BY 945910, U107 IS INSTALLED, JUMPER INSTALLED FROM E5 TO E6 AND ETCH CUT BETWEEN U107-6 AND U107-7.
9. NORMAL CIRCUIT USES TMS9900 (U104) WITHOUT U111 AND CRS. TO USE A TMX9900, U111 AND CRS MUST BE INSTALLED AND ETCH FROM -5V TO E12 CUT. SPARE JUMPER INSTALLED BETWEEN E11 AND E12 PROVIDES 6.2 VOLTS TO TMX9900.

REVISIONS			
ZONE	TR	DESCRIPTION	DATE
A		2.0.0.0.0 (1) CLR- WAS POR- (2) SH7 EZONE 35 CONN PIN1 OF U11, U28, U43, U53 TO CLR- (3) SH6, EZONE 7C, CONN PIN1 OF U79 TO TLPRES-	9/16/76
FORMAL RELEASE			
B		CM 419214 (C) 2/1/76	2-24-76
C		CU 417917 (C) L T/H E	2-24-76
D		CN 442358 (C) ND2 E/D	2-14-76



REV STATUS	D	C	C	D	C	D	C
OF SHEETS	1	2	3	4	5	6	7
UNLESS OTHERWISE SPECIFIED	REMOVE ALL BURRS AND SHARP EDGES						
	CONCENTRICITY MACHINED DIAMETERS 010 P/R						
	DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING						
	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY						
	INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100						
	HOLE TOLERANCE						
	013	126	251	THRU - 004	THRU - 005	THRU - 006	THRU - 007
	125	250	500	THRU - 001	THRU - 002	THRU - 003	THRU - 004
	501	751	1001	THRU - 001	THRU - 002	THRU - 003	THRU - 004
	750	1000	2000	THRU - 001	THRU - 002	THRU - 003	THRU - 004
	APPLICATION						
	UNLESS OTHERWISE SPECIFIED						
	DIMENSIONS ARE IN INCHES						
	TOLERANCES						
	ANGLES ±1°						
	3 PLACE DECIMALS = 0.10						
	2 PLACE DECIMALS = 0.02						
	DATE						
	5-25-76						
	DRAWN BY						
	D. O. B. 9/17/76						
	ENGR						
	T. J. 9/17/76						
	QA						
	T. J. 9/17/76						
	APWD						
	D. O. B. 9/17/76						
	CDNTR NO						
	DESIGN ACTIVITY RELEASE						
	D. O. B. 9/17/76						
	SCALE						
	N/A						
	SHEET 1 OF 7						

TEXAS INSTRUMENTS
 Equipment Group Dallas, Texas
LOGIC DIAGRAM
990 FLEXIBLE DISK CONTROLLER
 SIZE CODE IDENT NO DRAWING NO
D 96214 945942

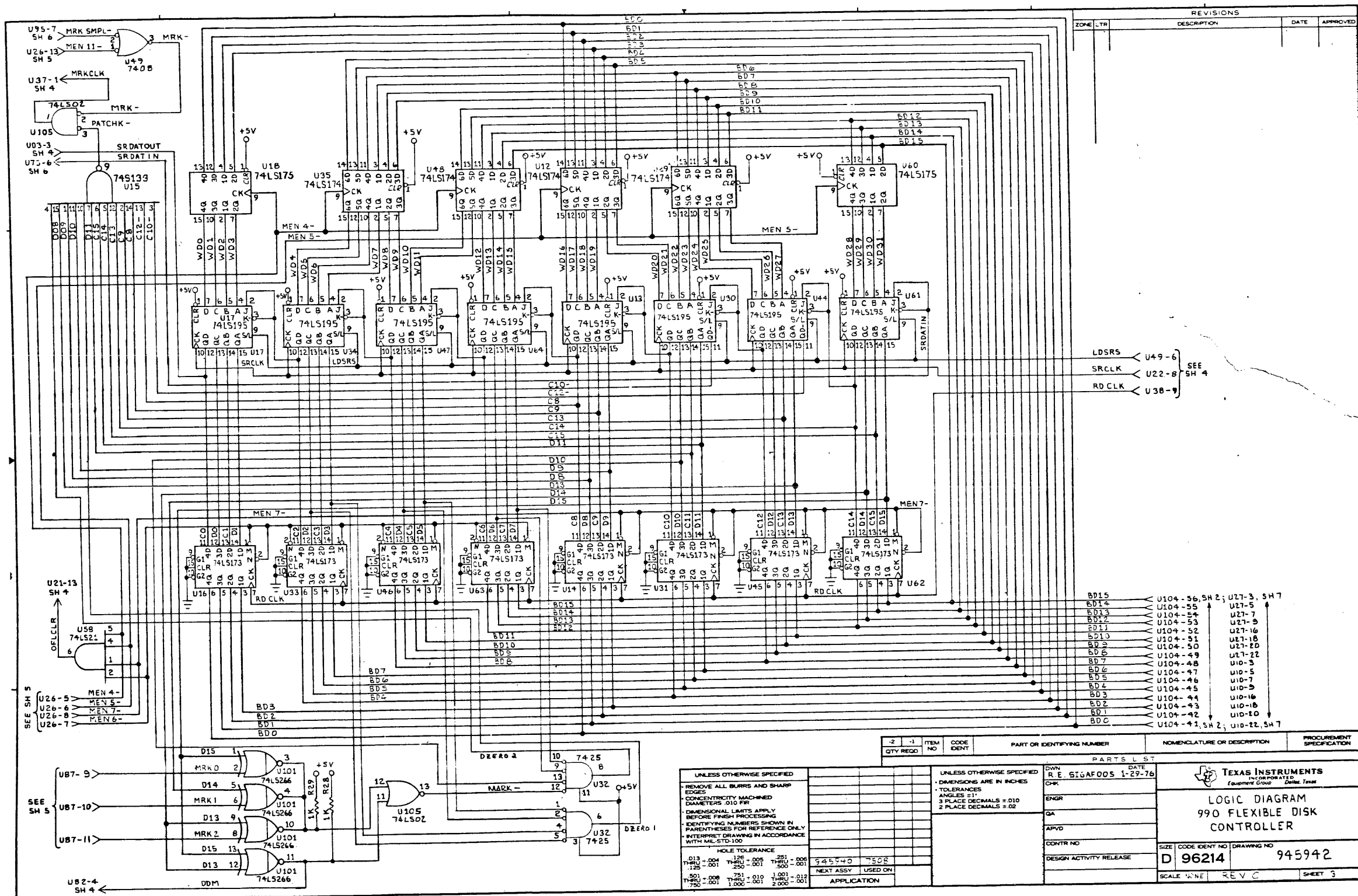


REV	DESCRIPTION	DATE	APPROVED
B015	U62-3, SH 3; U27-3, SH 7		
B014	U62-4, SH 3; U27-5, SH 7		
B013	U62-5, SH 3; U27-7, SH 7		
B012	U62-6, SH 3; U27-9, SH 7		
B011	U45-3, SH 3; U27-14, SH 7		
B010	U45-4, SH 3; U27-18, SH 7		
B009	U45-5, SH 3; U27-20, SH 7		
B008	U45-6, SH 3; U27-22, SH 7		

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES
CONCENTRICITY MACHINED DIAMETERS .010 FIR	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES ±1°
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS = .010
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	2 PLACE DECIMALS = .02

PARTS LIST		
DATE	R.E. SIGAFOOS 1-30-76	
CHK		
ENGR		
QA		
APVD		
CONTR NO		
DESIGN ACTIVITY RELEASE	SIZE	D 96214
	CODE IDENT NO	DRAWING NO
		945942
SCALE	REV	SHEET
	C	2



ZONE	TR	REVISIONS	DESCRIPTION	DATE	APPROVED

LDSRS < U49-6
 SRCLK < U22-8
 RD CLK < U38-9

SEE SH 4

BD15 < U104-56, SH 2; U27-3, SH 7
 BD14 < U104-55 U27-5
 BD13 < U104-54 U27-7
 BD12 < U104-53 U27-9
 BD11 < U104-52 U27-16
 BD10 < U104-51 U27-18
 BD9 < U104-50 U27-20
 BD8 < U104-49 U27-22
 BD7 < U104-48 U10-3
 BD6 < U104-47 U10-5
 BD5 < U104-46 U10-7
 BD4 < U104-45 U10-9
 BD3 < U104-44 U10-16
 BD2 < U104-43 U10-18
 BD1 < U104-42 U10-10
 BDC < U104-41, SH 2; U10-22, SH 7

QTY	REQD	-2	-1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED	DIMENSIONS ARE IN INCHES	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	ANGLES 21°	3 PLACE DECIMALS ± 0.10
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		2 PLACE DECIMALS ± 0.2	

HOLE TOLERANCE	DATE	DESIGNER
.013 - .004	126	251
.004 - .001	126	251
.001 - .0005	126	251
.0005 - .0001	126	251
.0001 - .00005	126	251

DATE	DATE	DATE
1-29-76	1-29-76	1-29-76

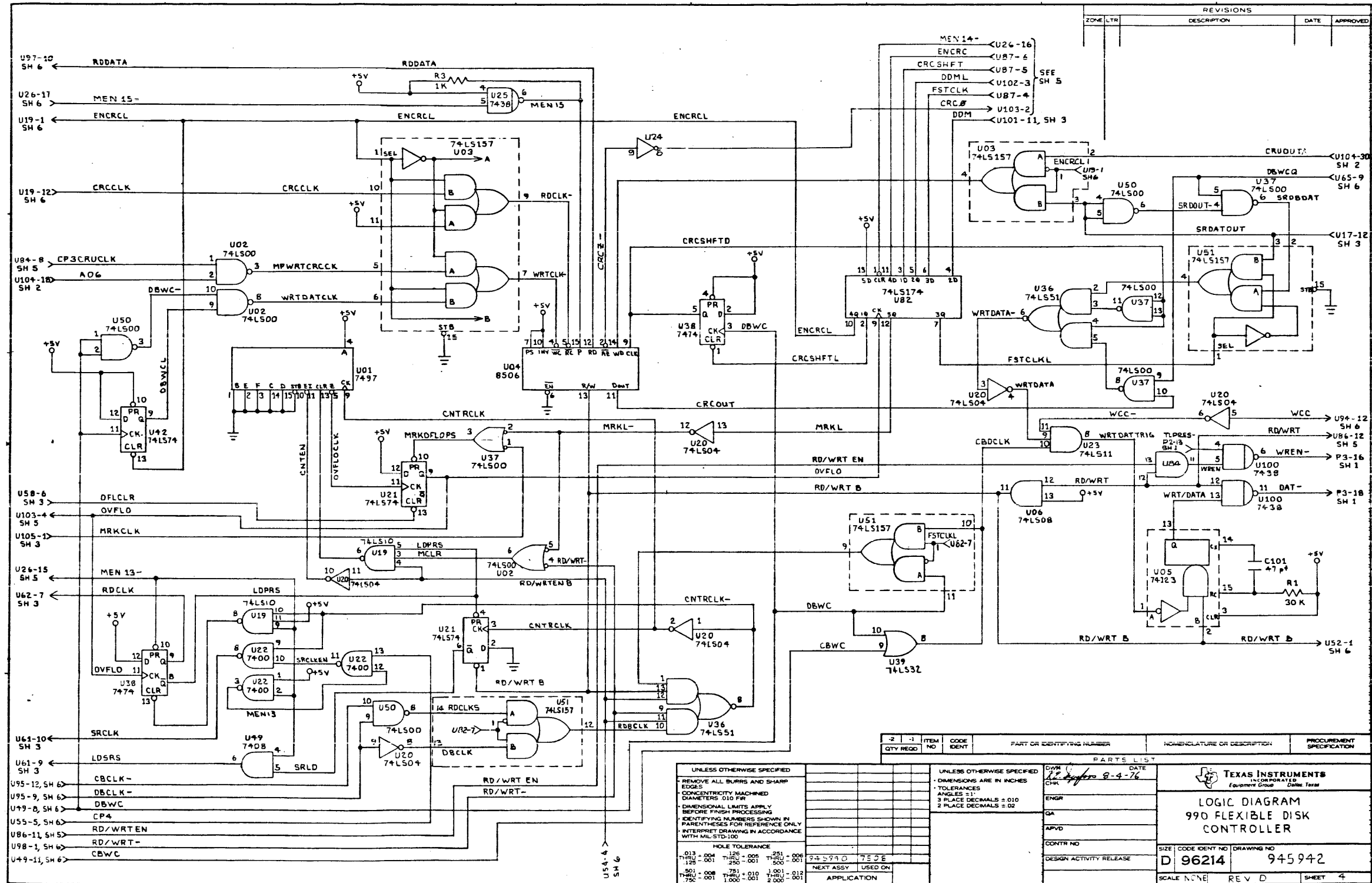
CONTR NO	DESIGN ACTIVITY RELEASE

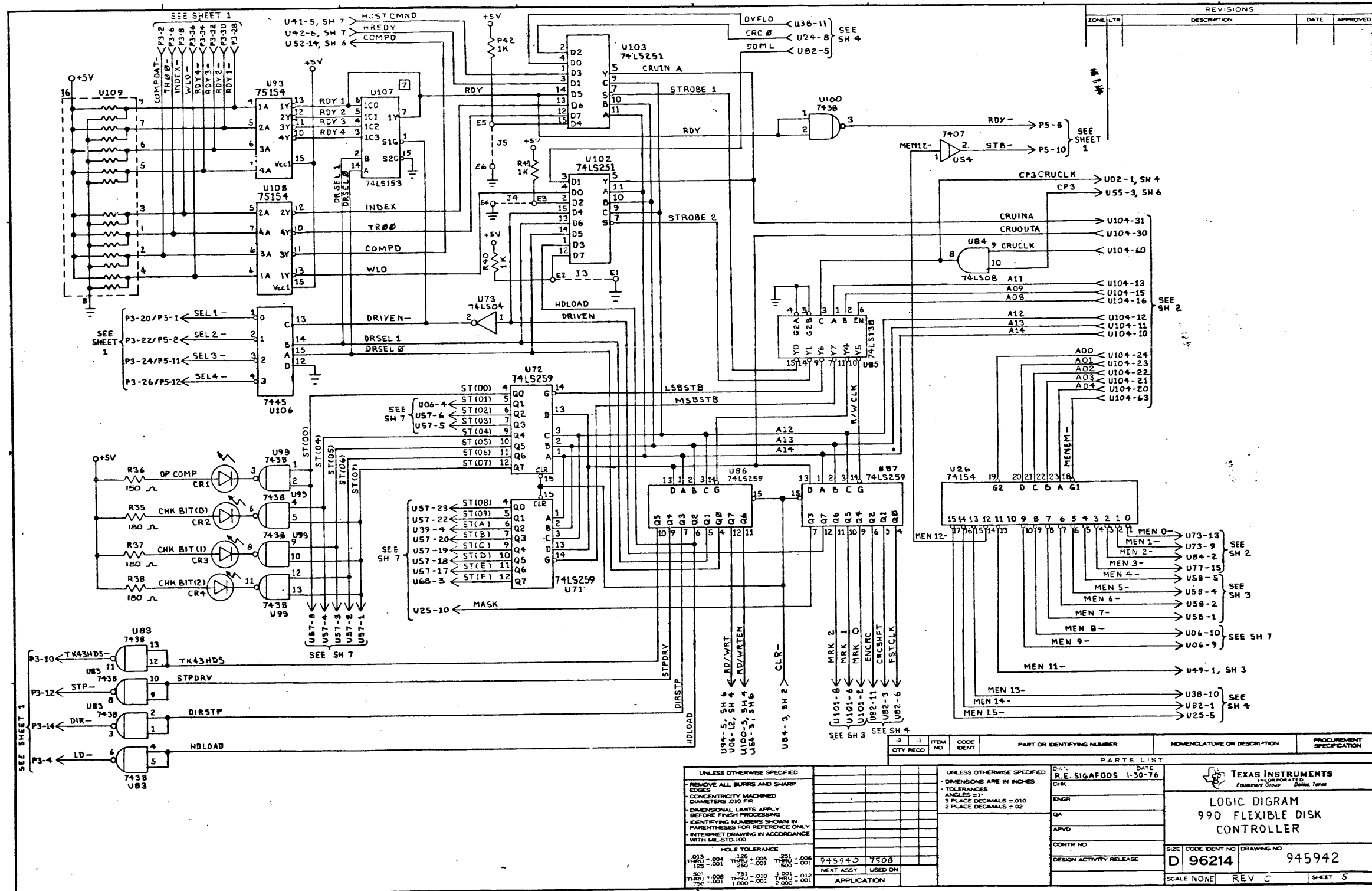
PARTS LIST		DRAWING NO	
R. E. SIGAFOOS		945421	
ENGR		DRAWING NO	
GA		945422	
APVD		SCALE 1/16" = 1"	
DESIGN ACTIVITY RELEASE		REV C	
D 96214		SHEET 3	

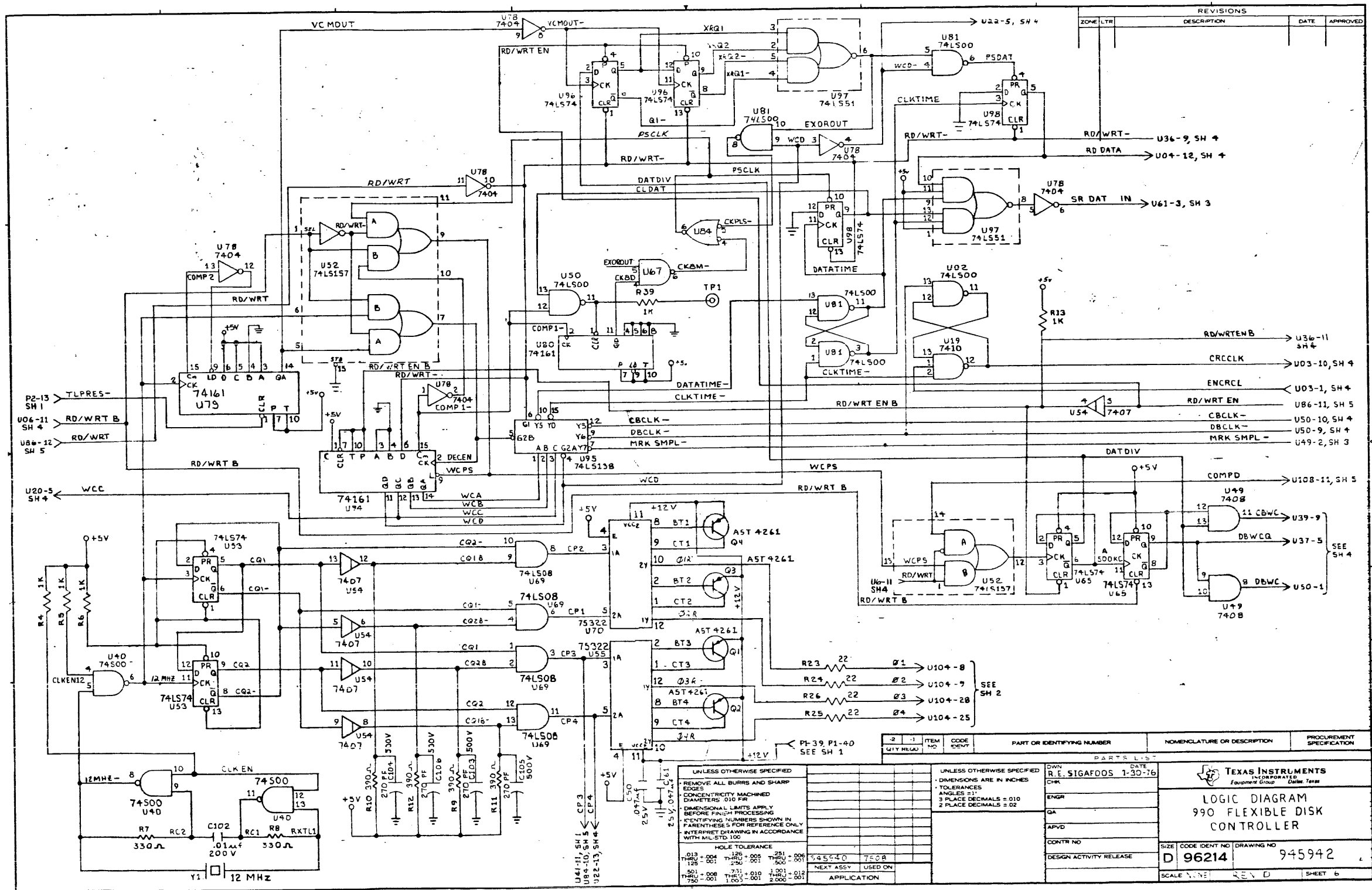
SEE SH 5

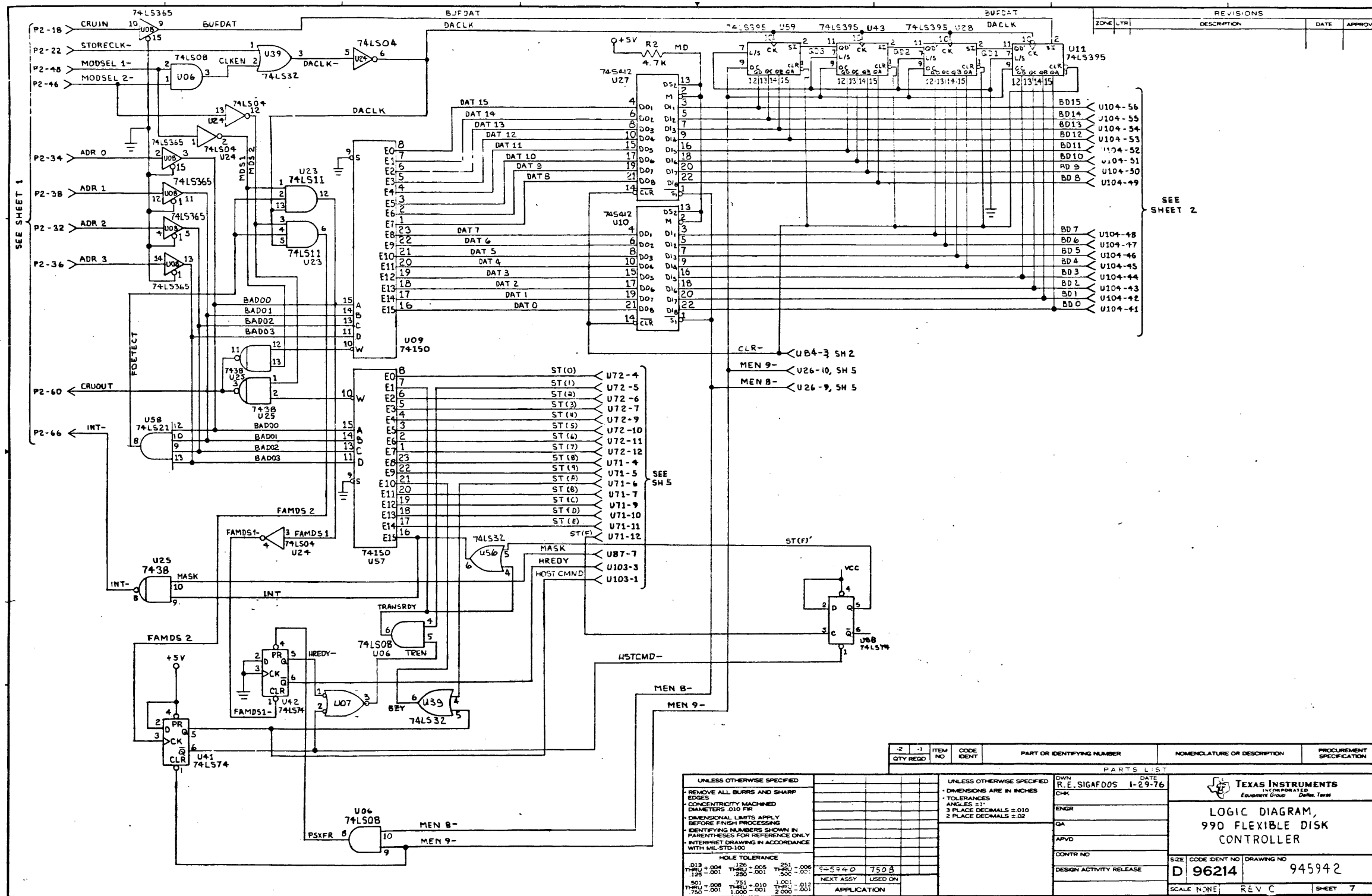
SEE SH 5

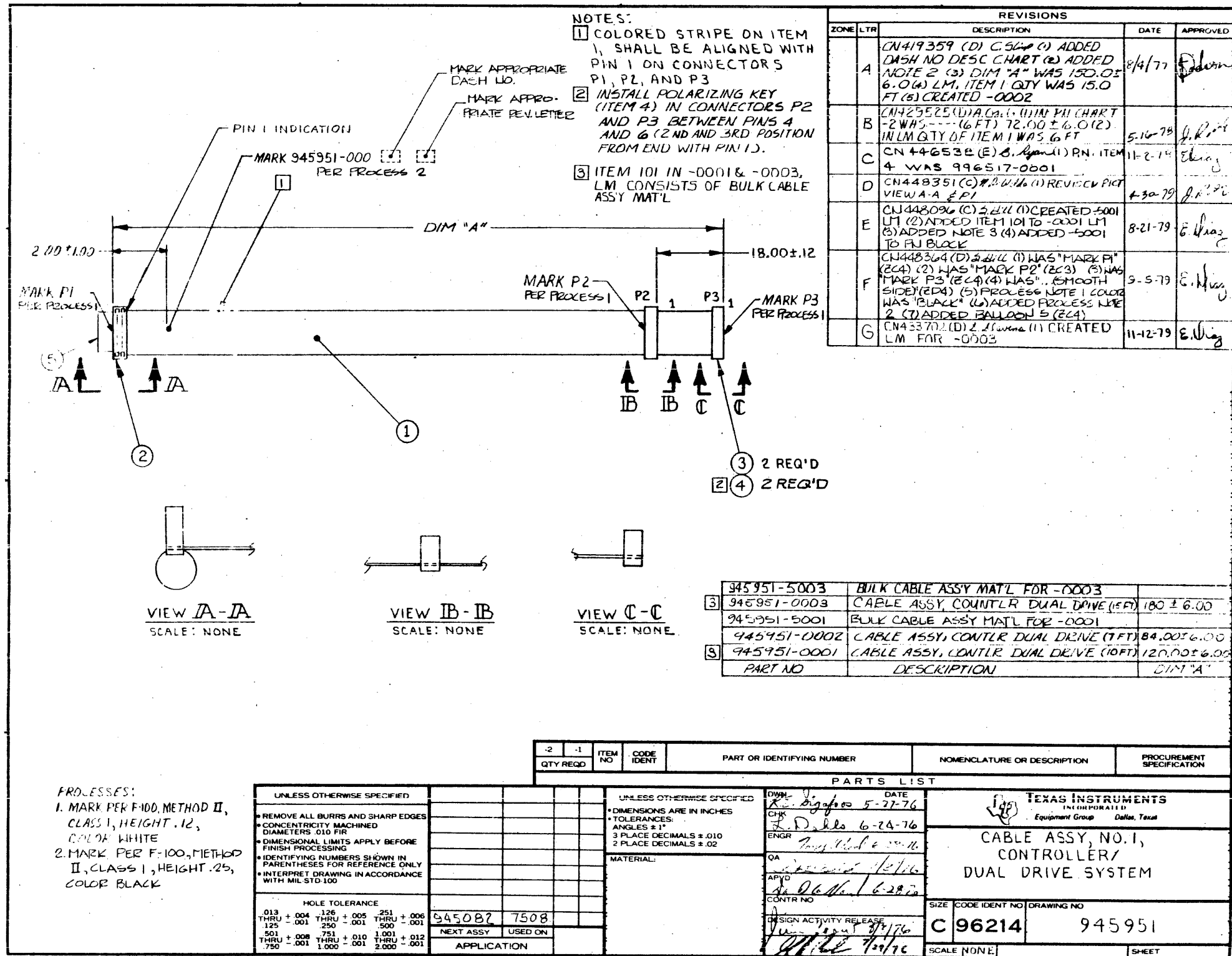
U82-4 SH 4











NOTES:
 ① COLORED STRIPE ON ITEM 1, SHALL BE ALIGNED WITH PIN 1 ON CONNECTORS P1, P2, AND P3
 ② INSTALL POLARIZING KEY (ITEM 4) IN CONNECTORS P2 AND P3 BETWEEN PINS 4 AND 6 (2ND AND 3RD POSITION FROM END WITH PIN 1).
 ③ ITEM 101 IN -0001 & -0003, LM CONSISTS OF BULK CABLE ASSY MAT'L

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	CN419359 (D) C.56 (C) ADDED DASH NO DESC CHART (2) ADDED NOTE 2 (3) DIM "A" WAS 150.05 (4) LM, ITEM 1 QTY WAS 15.0 FT (5) CREATED -0002	8/4/77	E. Wing
	B	CN425525 (D) A. Ca. (1) DIM CHART -2 WAS --- (6 FT) 72.00 ± 6.0 (2) IN LM QTY OF ITEM 1 WAS 6 FT	5-16-78	E. Wing
	C	CN446532 (E) B. Ryan (1) PN, ITEM 4 WAS 996517-0001	11-2-79	E. Wing
	D	CN448351 (C) B. Ryan (1) REVISED PICT VIEW A-A & P1	4-30-79	E. Wing
	E	CN448309 (C) S. Hill (1) CREATED -5001 LM (2) ADDED ITEM 101 TO -0001 LM (3) ADDED NOTE 3 (4) ADDED -5001 TO PN BLOCK	8-21-79	E. Wing
	F	CN448364 (D) S. Hill (1) WAS "MARK P1" (2) WAS "MARK P2" (3) WAS "MARK P3" (4) WAS "SMOOTH SIDE" (5) PROCESS NOTE 1 COLOR WAS "BLACK" (6) ADDED PROCESS NOTE 2 (7) ADDED BALLOON 5 (2CA)	9-5-79	E. Wing
	G	CN453702 (D) S. Hill (1) CREATED LM FOR -0003	11-12-79	E. Wing

3	945951-5003	BULK CABLE ASSY MAT'L FOR -0003	
3	945951-0003	CABLE ASSY, CONTRL DUAL DRIVE (15 FT)	180 ± 6.00
	945951-5001	BULK CABLE ASSY MAT'L FOR -0001	
	945951-0002	CABLE ASSY, CONTRL DUAL DRIVE (7 FT)	84.00 ± 6.00
3	945951-0001	CABLE ASSY, CONTRL DUAL DRIVE (10 FT)	120.00 ± 6.00
	PART NO	DESCRIPTION	DIM "A"

PROCESSES:
 1. MARK PER F100, METHOD II, CLASS 1, HEIGHT .12, COLOR WHITE
 2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .25, COLOR BLACK

UNLESS OTHERWISE SPECIFIED			
REMOVE ALL BURRS AND SHARP EDGES			
CONCENTRICITY MACHINED DIAMETERS .010 FIR			
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING			
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY			
INTERPRET DRAWING IN ACCORDANCE WITH MIL STD-100			
HOLE TOLERANCE			
.013 THRU .004	.126 THRU .001	.251 THRU .001	.006 THRU .001
125	250	500	
501 THRU .008	.751 THRU .010	1.001 THRU .012	2.001 THRU .001
750	1.000	2.000	
945082	7508		
	NEXT ASSY	USED ON	
APPLICATION			

UNLESS OTHERWISE SPECIFIED			
DIMENSIONS ARE IN INCHES			
TOLERANCES:			
ANGLES ± 1°			
3 PLACE DECIMALS ± .010			
2 PLACE DECIMALS ± .02			
MATERIAL:			
DATE			
5-27-76			
CHK			
D. D. H. 6-24-76			
ENGR			
T. M. H. 6-24-76			
QA			
APVD			
A. D. H. 6-28-76			
CONTR NO			
DESIGN ACTIVITY RELEASE			
7/2/76			

PARTS LIST		
TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas		
CABLE ASSY, NO. 1, CONTROLLER/ DUAL DRIVE SYSTEM		
SIZE	CODE IDENT NO	DRAWING NO
C	96214	945951
SCALE	NONE	
SHEET		

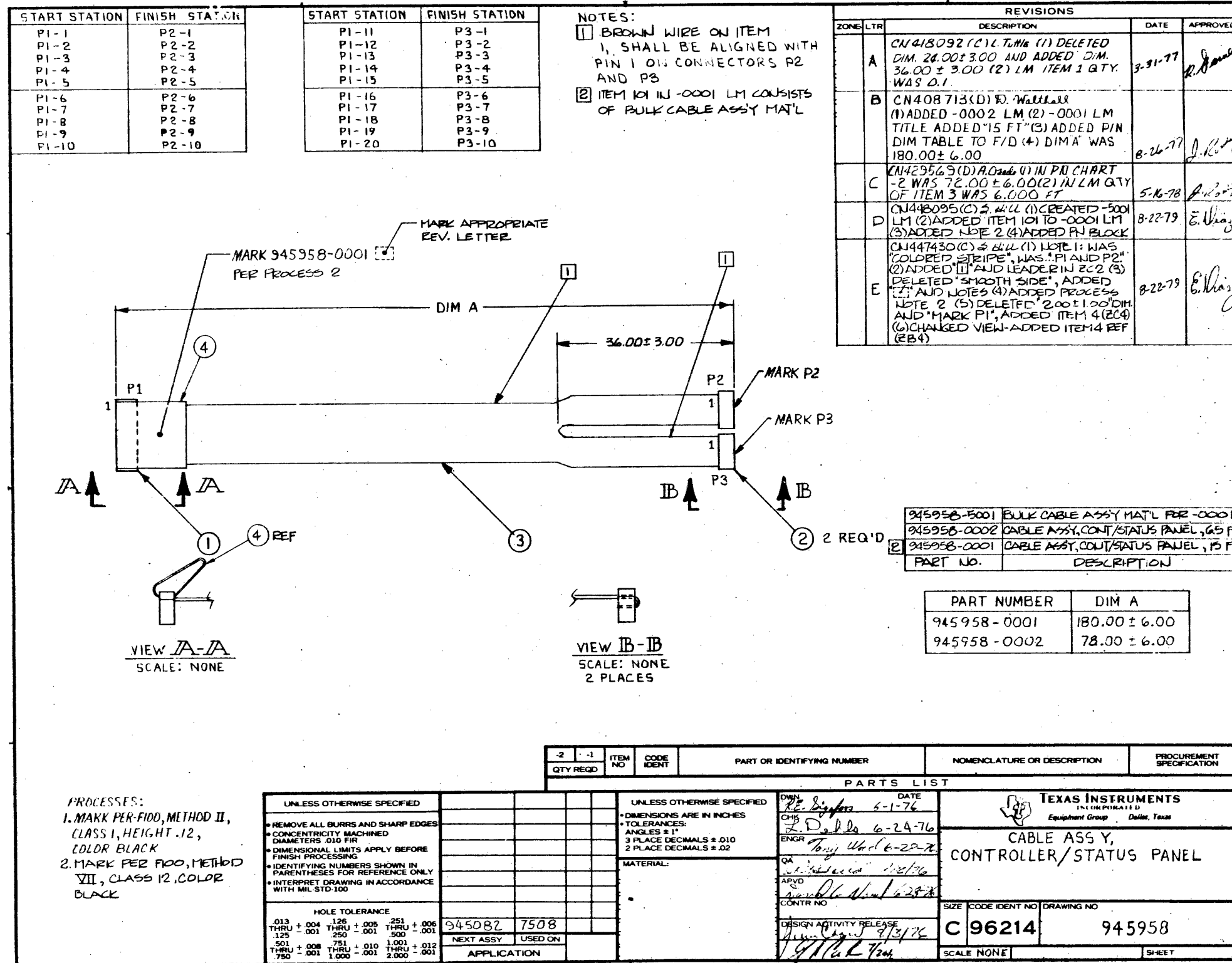
TEXAS INSTRUMENTS INCORPORATED		DATE 10/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945951-0001		REV G	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION		VENDOR PART NUMBER					
0002	00001.000	EA	0996261-0008	CONNECTOR, RECEPT, 50 POS W/C STRAIN RELIEF		000779-88379-8					
0002A				P1		000779-88373-1					
0003	00002.000	EA	2210149-0006	CONN, RIBBON CABLE/CARD-EDGE, 50 POS		000779-88373-1					
0003A				P2 P3		000779-88113-1					
0004	00002.000	EA	2210263-0002	KEY, CONNECTOR, INTER-CONTACT KEY		000779-88113-1					
0005	00001.000	EA	2210259-0005	TAB, PULL, PLASTIC LOCP, 2.500 L, 50 PCS		000779-88450-9					
0101	00001.000	EA	0945951-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
			<i>J. R. ...</i>	10-19-79			CABLE ASSY, CONTRL DUAL DRIVE (10FT)				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
							7508	LM0945951-0001		G	

TEXAS INSTRUMENTS INCORPORATED		DATE 10/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945951-0002		REV G	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION		VENDOR PART NUMBER					
0001	00007.000	FT	0996491-0001	CABLE, FLAT, 50-CONDUCTOR, UL-2828		008261-455-240-50					
0002	00001.000	EA	0996261-0008	CONNECTOR, RECEPT, 50 POS W/C STRAIN RELIEF		000779-88379-8					
0002A				P1		000779-88373-1					
0003	00002.000	EA	2210149-0006	CONN, RIBBON CABLE/CARD-EDGE, 50 POS		000779-88373-1					
0003A				P2 P3		000779-88113-1					
0004	00002.000	EA	2210263-0002	KEY, CONNECTOR, INTER-CONTACT KEY		000779-88113-1					
0005	00001.000	EA	2210259-0005	TAB, PULL, PLASTIC LOCP, 2.500 L, 50 PCS		000779-88450-9					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							CABLE ASSY, CONTRL DUAL DRIVE (7FT)				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM0945951-0002		G	

TEXAS INSTRUMENTS INCORPORATED		DATE 10/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945951-0003		REV G	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION		VENDOR PART NUMBER					
0002	00001.000	EA	0996261-0008	CONNECTOR, RECEPT, 50 POS W/C STRAIN RELIEF		000779-88379-8					
0002A				P1		000779-88373-1					
0003	00002.000	EA	2210149-0006	CONN, RIBBON CABLE/CARD-EDGE, 50 POS		000779-88373-1					
0003A				P2 P3		000779-88113-1					
0004	00002.000	EA	2210263-0002	KEY, CONNECTOR, INTER-CONTACT KEY		000779-88113-1					
0005	00001.000	EA	2210259-0005	TAB, PULL, PLASTIC LOCP, 2.500 L, 50 POS		000779-88450-9					
0101	00001.000	EA	0945951-5003	BULK CABLE ASSEMBLY MATERIAL FOR -0003							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							CABLE ASSY, CONTRL DUAL DRIVE (15FT)				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM0945951-0003		G	

TEXAS INSTRUMENTS INCORPORATED		DATE 10/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945951-5001		REV G		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	UNIT SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00010.000	FT		C996491-0001	CABLE, FLAT, 50-CONDUCTOR, UL-2828	008261-455-240-50						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0001					
APPD. MFC		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0945951-5001				REV G

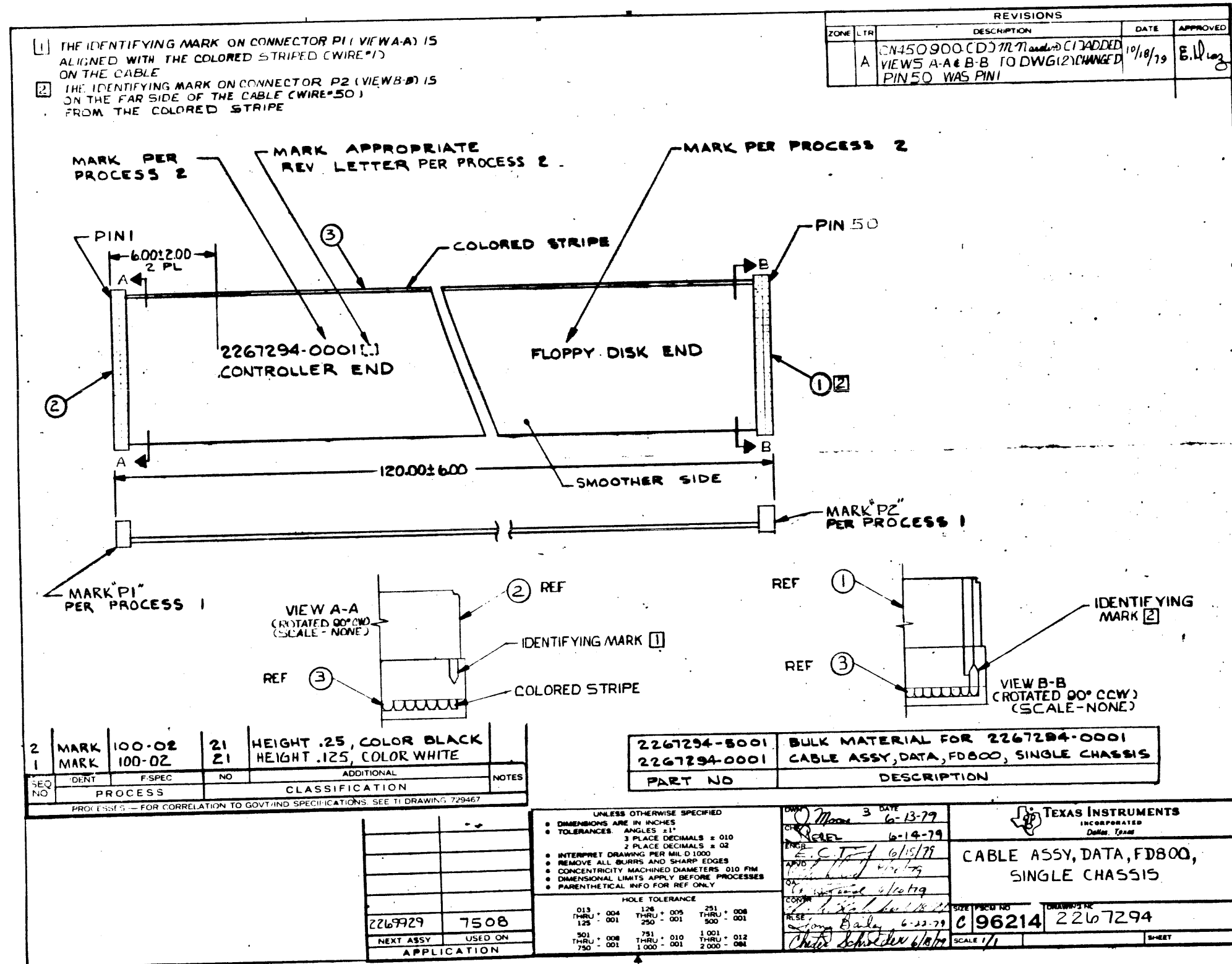
TEXAS INSTRUMENTS INCORPORATED		DATE 10/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945951-5003		REV G		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	UNIT SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00015.000	FT		0996491-0001	CABLE, FLAT, 50-CONDUCTOR, UL-2828	008261-455-240-50						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0003					
APPD. MFC		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0945951-5003				REV G



TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0945958-0001		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		0996261-0004	CONNECTOR, RECEPTACLE, 20 POS	000779-88377-4			
0001A					P1	000779-SEE TI DWG			
0002	00002.000	EA		0996261-0009	CONN, RECPT, 10 POS, W/O STRAIN RELIEF	000779-SEE TI DWG			
0002A					P2 P3	000779-SEE TI DWG			
0004	00001.000	EA		2210259-0004	TAB, PULL, PLASTIC LOOP, 20 POS	000779-SEE TI DWG			
0101	00001.000	EA		0945958-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001				
DRAFTSMAN		DATE	CKD	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
				<i>J.R. ...</i>	8-7-79			CABLE ASSY, CONT/STATUS PANEL, 15 FT	
APPD. MFG.		DATE	APPD.	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
								7508	
								LM0945958-0001	E

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0945958-0002		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		0996261-0004	CONNECTOR, RECEPTACLE, 20 POS	000779-88377-4			
0001A					P1	000779-SEE TI DWG			
0002	00002.000	EA		0996261-0009	CONN, RECPT, 10 POS, W/O STRAIN RELIEF	000779-SEE TI DWG			
0002A					P2 P3	000779-SEE TI DWG			
0003	00006.500	FT		0800693-0004	CABLE FLAT #28 7/36 STRD 20 COND 1" WIDE	MMM - 3365-20			
0004	00001.000	EA		2210259-0004	TAB, PULL, PLASTIC LOOP, 20 POS	000779-SEE TI DWG			
DRAFTSMAN		DATE	CKD	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
								CABLE ASSY, CONT/STATUS PANEL, 6.5 FT	
APPD. MFG.		DATE	APPD.	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
								LM0945958-0002	E

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0945958-5001		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0003	00016.000	FT		0800693-0004	CABLE FLAT #28 7/36 STRD 20 COND 1" WIDE	MMM - 3365-20			
DRAFTSMAN		DATE	CKD	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
								BULK CABLE ASSEMBLY MATERIAL FOR -0001	
APPD. MFG.		DATE	APPD.	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
								LM0945958-5001	E



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	ON 450900 (CD) 7/11/79 (1) ADDED VIEWS A-A & B-B TO DWG (2) CHANGED PIN 50 WAS PIN 1	10/18/79	E. D. Logg

2	MARK	100-02	21	HEIGHT .25, COLOR BLACK	
1	MARK	100-02	21	HEIGHT .125, COLOR WHITE	
SEQ NO	DENT	F-SPEC	NO	ADDITIONAL	NOTES
		PROCESS		CLASSIFICATION	

2267294-8001	BULK MATERIAL FOR 2267294-0001
2267294-0001	CABLE ASSY, DATA, FDB00, SINGLE CHASSIS
PART NO	DESCRIPTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES
- TOLERANCES: ANGLES ±1°
- 3 PLACE DECIMALS ±.010
- 2 PLACE DECIMALS ±.02
- INTERPRET DRAWING PER MIL-D-1000
- REMOVE ALL BURRS AND SHARP EDGES
- CONCENTRICITY MACHINED DIAMETERS .010 FIM
- DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
- PARENTHEetical INFO FOR REF ONLY

HOLE TOLERANCE		
013 + .004	128 + .005	251 + .008
THRU - .001	THRU - .001	THRU - .001
125 + .001	250 + .001	500 + .001
501 + .008	751 + .010	1.001 + .012
THRU - .001	THRU - .001	THRU - .001
750 + .001	1.000 + .001	2.000 + .001

DATE	6-13-79
DATE	6-14-79
DATE	6-15-79
DATE	6-22-79
DATE	6/18/79

TEXAS INSTRUMENTS INCORPORATED DALLAS, TEXAS	
CABLE ASSY, DATA, FDB00, SINGLE CHASSIS	
SIZE	SCALE 1/1
PART NO	2267294
SCALE	1/1

226729	7508
NEXT ASSY	USED ON
APPLICATION	

TEXAS INSTRUMENTS INCORPORATED		DATE 06/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM226729-0001		REV A	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OR SIZE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2210262-0009	CONN, PLID AND DTT, RIBBON WIRE, 50 PINS	000779-SEE TI DWG					
0001A					P2						
0002	00001.000	EA		0996261-0008	CONNECTOR, RECEPT, 50 PDS W/O STRAIN RELIEF	000779-88379-8					
0002A					F1						
0101	00001.000	EA		2267294-5001	BULK MATERIAL FOR 2267294-0001						

DRAFTSMAN	DATE	CEO	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
		J. P. ...		6-15-79			CABLE ASSY, DATA, FDB00, SINGLE CHASSIS
APP'D. MFG	DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	
						7508	
						PART NUMBER	REV
						LM2267294-0001	A

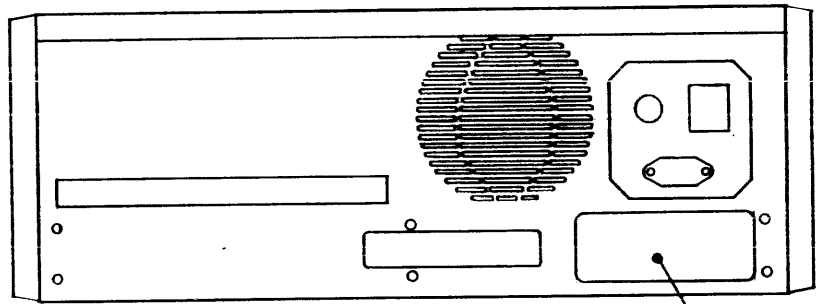
TEXAS INSTRUMENTS INCORPORATED		DATE 06/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2267294-5001		REV A	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OR SIZE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00010.000	FT		0996491-0001	CABLE, FLAT, 50-CONDUCTOR, UL-2028	008201-455-240-50					
					BULK MATERIAL FOR 2267294-0001						

DRAFTSMAN	DATE	CEO	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
							BULK MATERIAL FOR 2267294-0001
APP'D. MFG	DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	
						PART NUMBER	REV
						LM2267294-5001	A


A 2269939					
APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
2269929	7508	A	CN462731 (B) <i>R. Berfler</i>		
<p>1.0 SCOPE: THIS DRAWING CONFIGURES AN INTERNATIONAL FLEX DISK CHASSIS TO A PARTICULAR VOLTAGE OPTION.</p> <p>NOTES:</p> <p>1. ITEM 2 INSTALLED IN ITEM 1</p> <p>2. INSTALL ITEM 3 APPROXIMATELY WHERE SHOWN</p>					
REV					
SHEET					
REV STATUS OF SHEETS	REV	A	A		
	SHEET	1	2	3	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMAL ±.010 2 PLACE DECIMAL ±.02		TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas			
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		DWN <i>S. J. 10-22-79</i> DATE DATE <i>10-22-79</i> E.C.T. <i>11/1/79</i> DATE <i>11-1-79</i> DATE <i>11/1/79</i>			
INTERPRET DWG. IN ACCORDANCE WITH MIL-STD-100		FLEX DISK ASSY W/VOLTAGE KIT, FDB00, RACKMT/TABLETOP			
CONTR NO	SIZE	CODE IDENT NO	DRAWING NO		
	A	96214	2269939		
DESIGN ACTIVITY RELEASE	SCALE		SHEET 1 OF 3		
	UNIQUE				

DWG NO 2269939		SH 2																																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">2269939-0020</td> <td>CHASSIS, FD800, T/T, DUAL, 100/60</td> </tr> <tr> <td>-0019</td> <td>CHASSIS, FD800, T/T, SGL, 100/60</td> </tr> <tr> <td>-0018</td> <td>CHASSIS, FD800, T/T, DUAL, 240/50</td> </tr> <tr> <td>-0017</td> <td>CHASSIS, FD800, T/T, SGL, 240/50</td> </tr> <tr> <td>-0016</td> <td>CHASSIS, FD800, T/T, DUAL, 220/50</td> </tr> <tr> <td>-0015</td> <td>CHASSIS, FD800, T/T, SGL, 220/50</td> </tr> <tr> <td>-0014</td> <td>CHASSIS, FD800, T/T, DUAL, 100/50</td> </tr> <tr> <td>-0013</td> <td>CHASSIS, FD800, T/T, SGL, 100/50</td> </tr> <tr> <td>-0012</td> <td>CHASSIS, FD800, T/T, DUAL, 120/60</td> </tr> <tr> <td>-0011</td> <td>CHASSIS, FD800, T/T, SGL, 120/60</td> </tr> <tr> <td>-0010</td> <td>CHASSIS, FD800, RKMT, DUAL, 100/60</td> </tr> <tr> <td>-0009</td> <td>CHASSIS, FD800, RKMT, SGL, 100/60</td> </tr> <tr> <td>-0008</td> <td>CHASSIS, FD800, RKMT, DUAL, 240/50</td> </tr> <tr> <td>-0007</td> <td>CHASSIS, FD800, RKMT, SGL, 240/50</td> </tr> <tr> <td>-0006</td> <td>CHASSIS, FD800, RKMT, DUAL, 220/50</td> </tr> <tr> <td>-0005</td> <td>CHASSIS, FD800, RKMT, SGL, 220/50</td> </tr> <tr> <td>-0004</td> <td>CHASSIS, FD800, RKMT, DUAL, 100/50</td> </tr> <tr> <td>-0003</td> <td>CHASSIS, FD800, RKMT, SGL, 100/50</td> </tr> <tr> <td>-0002</td> <td>CHASSIS, FD800, RKMT, DUAL, 120/60</td> </tr> <tr> <td>2269939-0001</td> <td>CHASSIS, FD800, RKMT, SGL, 120/60</td> </tr> <tr> <td>PART NUMBER</td> <td>DESCRIPTION</td> </tr> </table>			2269939-0020	CHASSIS, FD800, T/T, DUAL, 100/60	-0019	CHASSIS, FD800, T/T, SGL, 100/60	-0018	CHASSIS, FD800, T/T, DUAL, 240/50	-0017	CHASSIS, FD800, T/T, SGL, 240/50	-0016	CHASSIS, FD800, T/T, DUAL, 220/50	-0015	CHASSIS, FD800, T/T, SGL, 220/50	-0014	CHASSIS, FD800, T/T, DUAL, 100/50	-0013	CHASSIS, FD800, T/T, SGL, 100/50	-0012	CHASSIS, FD800, T/T, DUAL, 120/60	-0011	CHASSIS, FD800, T/T, SGL, 120/60	-0010	CHASSIS, FD800, RKMT, DUAL, 100/60	-0009	CHASSIS, FD800, RKMT, SGL, 100/60	-0008	CHASSIS, FD800, RKMT, DUAL, 240/50	-0007	CHASSIS, FD800, RKMT, SGL, 240/50	-0006	CHASSIS, FD800, RKMT, DUAL, 220/50	-0005	CHASSIS, FD800, RKMT, SGL, 220/50	-0004	CHASSIS, FD800, RKMT, DUAL, 100/50	-0003	CHASSIS, FD800, RKMT, SGL, 100/50	-0002	CHASSIS, FD800, RKMT, DUAL, 120/60	2269939-0001	CHASSIS, FD800, RKMT, SGL, 120/60	PART NUMBER	DESCRIPTION
2269939-0020	CHASSIS, FD800, T/T, DUAL, 100/60																																											
-0019	CHASSIS, FD800, T/T, SGL, 100/60																																											
-0018	CHASSIS, FD800, T/T, DUAL, 240/50																																											
-0017	CHASSIS, FD800, T/T, SGL, 240/50																																											
-0016	CHASSIS, FD800, T/T, DUAL, 220/50																																											
-0015	CHASSIS, FD800, T/T, SGL, 220/50																																											
-0014	CHASSIS, FD800, T/T, DUAL, 100/50																																											
-0013	CHASSIS, FD800, T/T, SGL, 100/50																																											
-0012	CHASSIS, FD800, T/T, DUAL, 120/60																																											
-0011	CHASSIS, FD800, T/T, SGL, 120/60																																											
-0010	CHASSIS, FD800, RKMT, DUAL, 100/60																																											
-0009	CHASSIS, FD800, RKMT, SGL, 100/60																																											
-0008	CHASSIS, FD800, RKMT, DUAL, 240/50																																											
-0007	CHASSIS, FD800, RKMT, SGL, 240/50																																											
-0006	CHASSIS, FD800, RKMT, DUAL, 220/50																																											
-0005	CHASSIS, FD800, RKMT, SGL, 220/50																																											
-0004	CHASSIS, FD800, RKMT, DUAL, 100/50																																											
-0003	CHASSIS, FD800, RKMT, SGL, 100/50																																											
-0002	CHASSIS, FD800, RKMT, DUAL, 120/60																																											
2269939-0001	CHASSIS, FD800, RKMT, SGL, 120/60																																											
PART NUMBER	DESCRIPTION																																											
TEXAS INSTRUMENTS INCORPORATED Dallas, Texas		DWN DATE SIZE FSCM NO DRAWING NO REV																																										
ISSUE DATE		SCALE SHEET																																										
		A 96214 2269939 SHEET 2																																										

DWG NO 2269939 | 3 |
SH



③ ②

 TEXAS INSTRUMENTS INCORPORATED Dallas, Texas	DWNR <i>T. RICKETSON</i>	DATE <i>3-7-80</i>	SIZE A	FSCM NO 96214	DRAWING NO <i>2269939</i>	REV A
	ISSUE DATE	SCALE <i>NONE</i>	SHEET 3			

Floppy Disk Drive Chassis (Rackmount/Tabletop) Assembly

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0001		REV A		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001-000	EA		2267291-0001	FLEX DISK ASSY,RACKMT,S/D SINGLE 60HZ							
0002	00001-000	EA		2267288-0003	KIT,VOLT SELECTION,120V 60HZ,FLEX DISK							
0003	00001-000	EA		2267293-0001	NAMEPLATE,FLEX DISK ASSY,FD800A 120/60							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,FD800,RKMT,SGL,120/60					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7508	PART NUMBER LM 2269939-0001	REV A		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0002		REV A		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001-000	EA		2267291-0002	FLEX DISK ASSY,RACKMT,S/D DUAL 60HZ							
0002	00001-000	EA		2267288-0003	KIT,VOLT SELECTION,120V 60HZ,FLEX DISK							
0003	00001-000	EA		2267293-0002	NAMEPLATE,FLEX DISK ASSY,FD800A 120/60							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,FD800,RKMT,DUAL,120/60					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER LM 2269939-0002	REV A		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0003		REV A		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001-000	EA		2267291-0003	FLEX DISK ASSY,RACKMT,S/D SINGLE 50HZ							
0002	00001-000	EA		2267288-0001	KIT,VOLT SELECTION,100V 50HZ,FLEX DISK							
0003	00001-000	EA		2267293-0003	NAMEPLATE,FLEX DISK ASSY,FD800A 100/50							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,FD800,RKMT,SGL,100/50					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER LM 2269939-0003	REV A		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0004		REV A		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001-000	EA		2267291-0004	FLEX DISK ASSY,RACKMT,S/D DUAL 50HZ							
0002	00001-000	EA		2267288-0001	KIT,VOLT SELECTION,100V 50HZ,FLEX DISK							
0003	00001-000	EA		2267293-0004	NAMEPLATE,FLEX DISK ASSY,FD800A 100/50							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,FD800,RKMT,DUAL,100/50					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER LM 2269939-0004	REV A		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0005		REV A	
DATE 03/31/80									
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		2267291-0003	FLEX DISK ASSY,RACKMT,S/D SINGLE 50HZ				
0002	00001.000	EA		2267288-0004	KIT,VOLT SELECTION,220V 50HZ,FLEX DISK				
0003	00001.000	EA		2267293-0005	NAMEPLATE,FLEX DISK ASSY,FD800A 220/50				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS,FD800, RKMT, SGL, 220/50	
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0005	
								REV A	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0004		REV A	
DATE 03/31/80									
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		2267291-0004	FLEX DISK ASSY,RACKMT,S/D DUAL 50HZ				
0002	00001.000	EA		2267288-0004	KIT,VOLT SELECTION,220V 50HZ,FLEX DISK				
0003	00001.000	EA		2267293-0004	NAMEPLATE,FLEX DISK ASSY,FD800A 220/50				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS,FD800, RKMT, DUAL, 220/50	
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0004	
								REV A	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0007		REV A	
DATE 03/31/80									
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		2267291-0003	FLEX DISK ASSY,RACKMT,S/D SINGLE 50HZ				
0002	00001.000	EA		2267288-0005	KIT,VOLT SELECTION,240V 50HZ,FLEX DISK				
0003	00001.000	EA		2267293-0007	NAMEPLATE,FLEX DISK ASSY,FD800A 240/50				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS,FD800, RKMT, SGL, 240/50	
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0007	
								REV A	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0008		REV A	
DATE 03/31/80									
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		2267291-0004	FLEX DISK ASSY,RACKMT,S/D DUAL 50HZ				
0002	00001.000	EA		2267288-0005	KIT,VOLT SELECTION,240V 50HZ,FLEX DISK				
0003	00001.000	EA		2267293-0008	NAMEPLATE,FLEX DISK ASSY,FD800A 240/50				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS,FD800, RKMT, DUAL, 240/50	
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0008	
								REV A	

Floppy Disk Drive Chassis (Rackmount/Tabletop) Assembly

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0009		REV A		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2267291-0001	FLEX DISK ASSY,RACKMT,S/D SINGLE 60HZ							
0002	00001.000	EA		2267288-0002	KIT,VOLT SELECTION,100V 60HZ,FLEX DISK							
0003	00001.000	EA		2267293-0009	NAMEPLATE,FLEX DISK ASSY,F0000A 100/60							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,F0000,RKMT,SGL,100/60					
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0009		REV A		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0010		REV A		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2267291-0002	FLEX DISK ASSY,RACKMT,S/D DUAL 60HZ							
0002	00001.000	EA		2267288-0002	KIT,VOLT SELECTION,100V 60HZ,FLEX DISK							
0003	00001.000	EA		2267293-0010	NAMEPLATE,FLEX DISK ASSY,F0000A 100/60							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,F0000,RKMT,DUAL,100/60					
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0010		REV A		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0011		REV A		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2267292-0001	FLEX DISK ASSY,TABLE TOP,S/D SINGLE 60HZ							
0002	00001.000	EA		2267288-0003	KIT,VOLT SELECTION,120V 60HZ,FLEX DISK							
0003	00001.000	EA		2267293-0011	NAMEPLATE,FLEX DISK ASSY,F0000A 120/60							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,F0000,T/T,SGL,120/60					
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0011		REV A		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0012		REV A		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2267292-0002	FLEX DISK ASSY,TABLE TOP,S/D DUAL 60HZ							
0002	00001.000	EA		2267288-0003	KIT,VOLT SELECTION,120V 60HZ,FLEX DISK							
0003	00001.000	EA		2267293-0012	NAMEPLATE,FLEX DISK ASSY,F0000A 120/60							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,F0000,T/T,DUAL,120/60					
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0012		REV A		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0013		REV A		
DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		2267292-0003	FLEX DISK ASSY, TABLE TOP, S/D SINGLE 50HZ					
0002	00001.000	EA		2267288-0001	KIT, VOLT SELECTION, 100V 50HZ, FLEX DISK					
0003	00001.000	EA		2267293-0013	NAMEPLATE, FLEX DISK ASSY, FD800A 100/50					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, FD800, T/T, SCL, 100/50			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0013		REV A

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0014		REV A		
DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		2267292-0004	FLEX DISK ASSY, TABLE TOP, S/D DUAL 50HZ					
0002	00001.000	EA		2267288-0001	KIT, VOLT SELECTION, 100V 50HZ, FLEX DISK					
0003	00001.000	EA		2267293-0014	NAMEPLATE, FLEX DISK ASSY, FD800A 100/50					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, FD800, T/T, DUAL, 100/50			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0014		REV A

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0015		REV A		
DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		2267292-0003	FLEX DISK ASSY, TABLE TOP, S/D SINGLE 50HZ					
0002	00001.000	EA		2267288-0004	KIT, VOLT SELECTION, 220V 50HZ, FLEX DISK					
0003	00001.000	EA		2267293-0015	NAMEPLATE, FLEX DISK ASSY, FD800A 220/50					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, FD800, T/T, SCL, 220/50			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0015		REV A

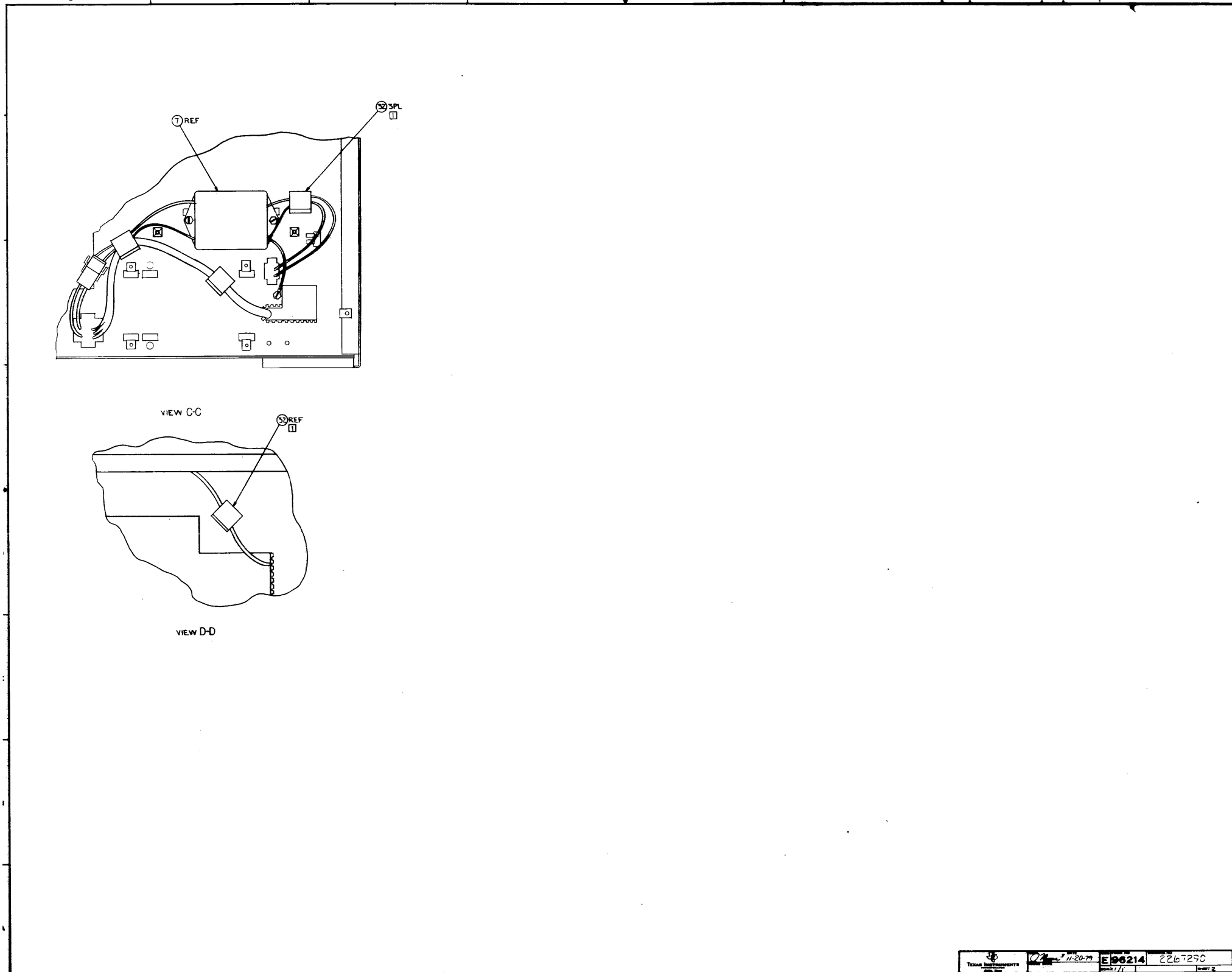
TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2269939-0016		REV A		
DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		DATE 03/31/80		
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		2267292-0004	FLEX DISK ASSY, TABLE TOP, S/D DUAL 50HZ					
0002	00001.000	EA		2267288-0004	KIT, VOLT SELECTION, 220V 50HZ, FLEX DISK					
0003	00001.000	EA		2267293-0016	NAMEPLATE, FLEX DISK ASSY, FD800A 220/50					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, FD800, T/T, DUAL, 220/50			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2269939-0016		REV A

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269939-0017		REV A	
DATE 03/31/80									
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001-000	EA		2267292-0003	FLEX DISK ASSY, TABLE TOP, S/D SINGLE 50HZ				
0002	00001-000	EA		2267288-0005	KIT, VOLT SELECTION, 240V 50HZ, FLEX DISK				
0003	00001-000	EA		2267293-0017	NAMEPLATE, FLEX DISK ASSY, FD800A 240/50				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS, FD800, T/T, SGL, 240/50	
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM2269939-0017 A	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269939-0018		REV A	
DATE 03/31/80									
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001-000	EA		2267292-0004	FLEX DISK ASSY, TABLE TOP, S/D DUAL 50HZ				
0002	00001-000	EA		2267288-0005	KIT, VOLT SELECTION, 240V 50HZ, FLEX DISK				
0003	00001-000	EA		2267293-0018	NAMEPLATE, FLEX DISK ASSY, FD800A 240/50				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS, FD800, T/T, DUAL, 240/50	
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM2269939-0018 A	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269939-0019		REV A	
DATE 03/31/80									
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001-000	EA		2267292-0001	FLEX DISK ASSY, TABLE TOP, S/D SINGLE 60HZ				
0002	00001-000	EA		2267288-0002	KIT, VOLT SELECTION, 100V 60HZ, FLEX DISK				
0003	00001-000	EA		2267293-0019	NAMEPLATE, FLEX DISK ASSY, FD800A 100/60				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS, FD800, T/T, SGL, 100/60	
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM2269939-0019 A	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269939-0020		REV A	
DATE 03/31/80									
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001-000	EA		2267292-0002	FLEX DISK ASSY, TABLE TOP, S/D DUAL 60HZ				
0002	00001-000	EA		2267288-0002	KIT, VOLT SELECTION, 100V 60HZ, FLEX DISK				
0003	00001-000	EA		2267293-0020	NAMEPLATE, FLEX DISK ASSY, FD800A 100/60				
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS, FD800, T/T, DUAL, 100/60	
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM2269939-0020 A	



TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2267290-0001		REV 8	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265025-0001	INNER CHASSIS,FLEX DISK						
0002	00001.000	EA		2261695-0001	INTERNATIONAL FLOPPY POWER SUPPLY						
0003	00001.000	EA		0945910-0001	FLEXIBLE DISK DRIVE, 115V 60HZ						
0004	00001.000	EA		0972479-0001	FAN,AC 115V 50/60HZ 7M .06LINE/A 1650RPM RTN -027117/MDG WR2						
0005	00001.000	EA		2267250-0001	TRANSFORMER,FLEXIBLE DISK DRIVE						
0006	00001.000	EA		2265040-0001	AC POWER MODULE ASSY						
0007	00001.000	EA		2267252-0001	LINE FILTER ASSY						
0008	00001.000	EA		2265042-0001	BRACKET,MOUNTING,POWER LIGHT						
0009	00001.000	EA		2265009-0001	CABLE ASSEMBLY,DC,FLEXIBLE DISK						
0010	00001.000	EA		2265004-0002	CABLE ASSY,AC,FLEX DISK,SINGLE DENSITY						
0011	00001.000	EA		2265012-0001	CABLE ASSEMBLY,FAN						
0012	00001.000	EA		2265011-0001	CABLE ASSEMBLY,POWER INDICATOR						
0013	00001.000	EA		2210461-0001	DIODE,INDICATOR,LED,SNAP-IN, RED	072619-559-0101-001					
0014	REF	EA		2267251-9901	DIAGRAM,INTERCONNECTION,FLEX DISK DRIVE						
0015	00002.000	EA		2265043-0001	SPACER,FLEXIBLE DISK						
0016	00006.000	EA		2210250-0005	FASTENER,NYLON,TOGGLE	078553-C60048AA-500					
0017	00007.000	EA		0972604-0011	SCREW, THREAD FORMING, #6-32						
0018	00003.000	EA		0972604-0013	SCREW,TMD FRMG,HEX-WASHR HD,6-32X.625LG						
0019	00001.000	EA		2267206-0001	GASKET,REAR,INNER CHASSIS						
0020	00006.000	EA		0972603-0017	SCREW, THREAD FORM., SLOTTED, 1-1/4 L	SEE TI- DRAWING					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS SUB-ASSY,S/D DRIVE,SINGLE 60HZ			
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 2267290-0001		REV	8

TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2267290-0001		REV 8	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021	00004.000	EA		0972604-0019	SCREW, SLOT HEX,WASHER HEAD-TAPTITE .500						
0022	00009.000	EA		0972802-0004	FASTENER, SPEED NUT, STL 6-32	078553-C15180-632-67					
0023	00004.000	EA		2210006-0002	ASSY, HEX NUT, LOCKWASHERS	092550-SEE DRAWING					
0024	00006.000	EA		0972802-0008	NUT,U-TYPE, 6-32 X .062						
0025	00000.600	EA		0418082-0001	GROMMET, PLASTIC, EDGING						
0026	00002.000	EA		2210400-0001	FASTENER, SPRING STEEL	078553-SEE TI DRAWING					
0028	00001.000	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL - MS3367-4-9					
0029	REF	EA		2269934-9901	TEST PROC,CHASSIS,INTL FLEXIBLE DISK						
0031	00007.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0032	00006.000	EA		0972741-0002	CLAMP,CBL,PLASTIC,SELF-ADHESIVE,						
0033	00001.000	EA		0418730-0107	WASHER-PLASTIC AND SYNTHETIC RUBBER						
0034	00004.000	EA		0972802-0016	FASTENER,SPEED NUT,STL,10-32, .017 THK	078553-SEE TI DWG					
0035	00004.000	EA		0996739-0035	SENS MACHINE SCREW,10-32X1/2 SLOT HEXHD						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS SUB-ASSY,S/D DRIVE,SINGLE 60HZ			
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 2267290-0001		REV	8

TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2267290-0002		REV 8	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265025-0001	INNER CHASSIS,FLEX DISK						
0002	00001.000	EA		2261695-0001	INTERNATIONAL FLOPPY POWER SUPPLY						
0003	00002.000	EA		0945910-0001	FLEXIBLE DISK DRIVE, 115V 60HZ						
0004	00001.000	EA		0972479-0001	FAN,AC 115V 50/60HZ 7M .06LINE/A 1650RPM RTN -027117/MDG WR2						
0005	00001.000	EA		2267250-0001	TRANSFORMER,FLEXIBLE DISK DRIVE						
0006	00001.000	EA		2265040-0001	AC POWER MODULE ASSY						
0007	00001.000	EA		2267252-0001	LINE FILTER ASSY						
0008	00001.000	EA		2265042-0001	BRACKET,MOUNTING,POWER LIGHT						
0009	00002.000	EA		2265009-0001	CABLE ASSEMBLY,DC,FLEXIBLE DISK						
0010	00002.000	EA		2265004-0002	CABLE ASSY,AC,FLEX DISK,SINGLE DENSITY						
0011	00001.000	EA		2265012-0001	CABLE ASSEMBLY,FAN						
0012	00001.000	EA		2265011-0001	CABLE ASSEMBLY,POWER INDICATOR						
0013	00001.000	EA		2210461-0001	DIODE,INDICATOR,LED,SNAP-IN, RED	072619-559-0101-001					
0014	REF	EA		2267251-9901	DIAGRAM,INTERCONNECTION,FLEX DISK DRIVE						
0015	00003.000	EA		2265043-0001	SPACER,FLEXIBLE DISK						
0016	00006.000	EA		2210250-0005	FASTENER,NYLON,TOGGLE	078553-C60048AA-500					
0017	00007.000	EA		0972604-0011	SCREW, THREAD FORMING, #6-32						
0018	00003.000	EA		0972604-0013	SCREW,TMD FRMG,HEX-WASHR HD,6-32X.625LG						
0019	00001.000	EA		2267206-0001	GASKET,REAR,INNER CHASSIS						
0020	00006.000	EA		0972603-0017	SCREW, THREAD FORM., SLOTTED, 1-1/4 L	SEE TI- DRAWING					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS SUB-ASSY,S/D DRIVE,DUAL 60HZ			
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 2267290-0002		REV	8

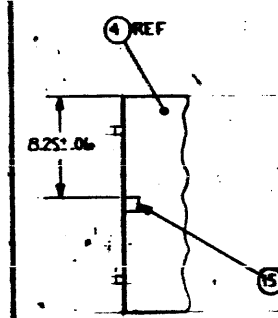
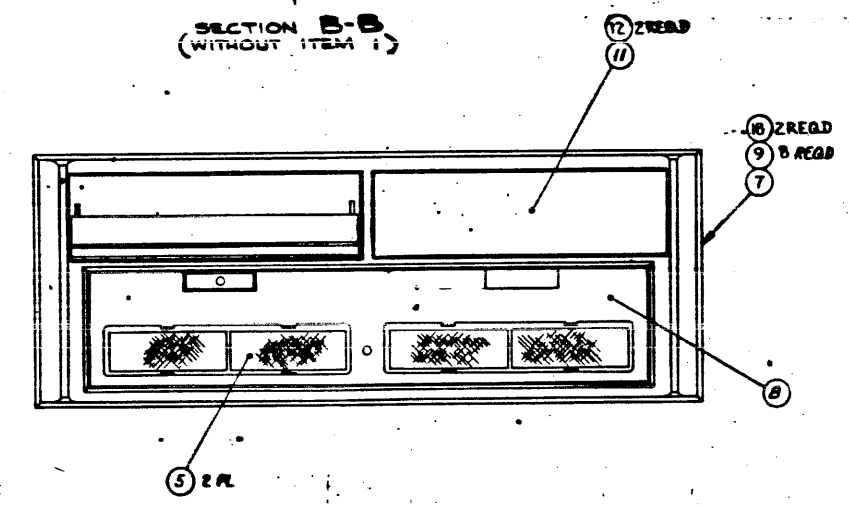
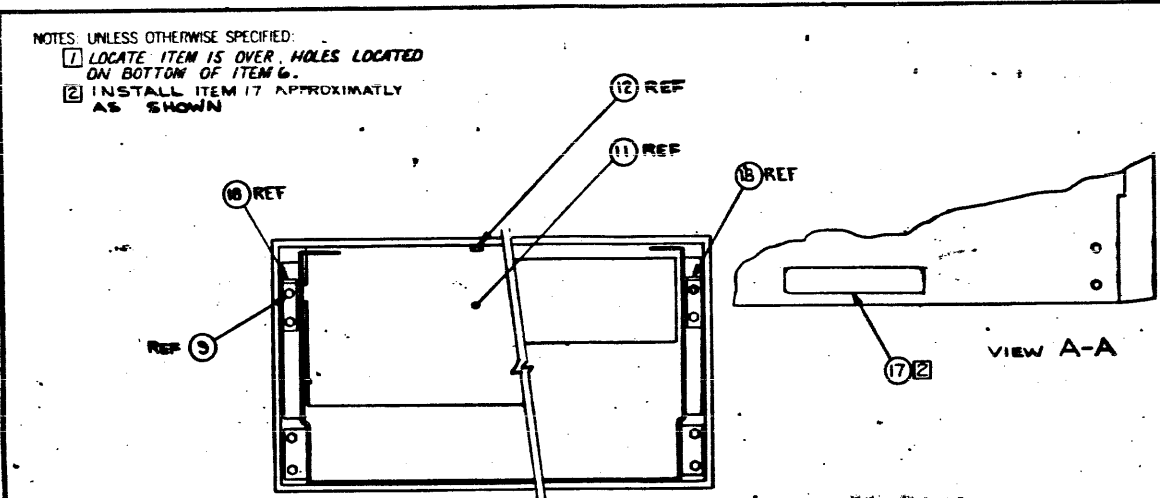
TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2267290-0002		REV 8	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021	00004.000	EA		0972604-0019	SCREW, SLOT HEX,WASHER HEAD-TAPTITE .500						
0022	00009.000	EA		0972802-0004	FASTENER, SPEED NUT, STL 6-32	078553-C15180-632-67					
0023	00004.000	EA		2210006-0002	ASSY, HEX NUT, LOCKWASHERS	092550-SEE DRAWING					
0024	00006.000	EA		0972802-0008	NUT,U-TYPE, 6-32 X .062						
0025	00000.600	EA		0418082-0001	GROMMET, PLASTIC, EDGING						
0026	00002.000	EA		2210400-0001	FASTENER, SPRING STEEL	078553-SEE TI DRAWING					
0028	00001.000	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL - MS3367-4-9					
0029	REF	EA		2269934-9901	TEST PROC,CHASSIS,INTL FLEXIBLE DISK						
0031	00007.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0032	00006.000	EA		0972741-0002	CLAMP,CBL,PLASTIC,SELF-ADHESIVE,						
0033	00001.000	EA		0418730-0107	WASHER-PLASTIC AND SYNTHETIC RUBBER						
0034	00004.000	EA		0972802-0016	FASTENER,SPEED NUT,STL,10-32, .017 THK	078553-SEE TI DWG					
0035	00004.000	EA		0996739-0035	SENS MACHINE SCREW,10-32X1/2 SLOT HEXHD						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS SUB-ASSY,S/D DRIVE,DUAL 60HZ			
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 2267290-0002		REV	8

TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2267290-0003		REV 8	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION		VENDOR PART NUMBER					
0001	EA	INNER CHASSIS,FLEX DISK	2265025-0001								
0002	EA	INTERNATIONAL FLOPPY POWER SUPPLY	2261695-0001								
0003	EA	FLEXIBLE DISK DRIVE,100V 50HZ	0949910-0003								
0004	EA	FAN,AC 115V 50/60HZ 7W .06LINE/A 1650RPM RTN -027117/MOD WR2	0972479-0001								
0005	EA	TRANSFORMER,FLEXIBLE DISK DRIVE	2267250-0001								
0006	EA	AC POWER MODULE ASSY	2265040-0001								
0007	EA	LINE FILTER ASSY	2267252-0001								
0008	EA	BRACKET,MOUNTING,POWER LIGHT	2265042-0001								
0009	EA	CABLE ASSEMBLY,DC,FLEXIBLE DISK	2265009-0001								
0010	EA	CABLE ASSY,AC,FLEX DISK,SINGLE DENSITY	2265004-0002								
0011	EA	CABLE ASSEMBLY,FAN	2265012-0001								
0012	EA	CABLE ASSEMBLY,POWER INDICATOR	2265011-0001								
0013	EA	DIODE,INDICATOR,LED,SNAP-IN, RED	2210461-0001			072619-559-0101-001					
0014	REF	DIAGRAM,INTERCONNECTION,FLEX DISK DRIVE	2267251-9901								
0015	EA	SPACER,FLEXIBLE DISK	2265043-0001								
0016	EA	FASTENER,NYLON,TOGGLE	2210250-0005			078553-C60048AA-500					
0017	EA	SCREW, THREAD FORMING, #6-32	0972604-0011								
0018	EA	SCREW,THD FRMG,HEX-WSHR HD,6-32X.625LG	0972604-0013								
0019	EA	GASKET,REAR,INNER CHASSIS	2267206-0001								
0020	EA	SCREW, THREAD FORM., SLOTTED, 1-1/4 L	0972603-0017			SEE TI- DRAWING					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS SUB-ASSY,S/D DRIVE,SINGLE 50HZ			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 2267290-0003		8	

TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2267290-0003		REV 8	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION		VENDOR PART NUMBER					
0021	EA	SCREW, SLOT HEX,WASHER HEAD-TAPTITE .500	0972604-0019								
0022	EA	FASTENER, SPEED NUT, STL 6-32	0972802-0004			078553-C15180-632-67					
0023	EA	ASSY, HEX NUT, LOCKWASHERS	2210006-0002			092550-SEE DRAWING					
0024	EA	NUT,U-TYPE, 8-32 X .062	0972802-0008								
0025	EA	GROMMET, PLASTIC, EDGING	0418002-0001								
0026	EA	FASTENER, SPRING STEEL	2210480-0001			078553-SEE TI DRAWING					
0028	EA	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	0418212-0040			QPL - MS3367-4-9					
0029	REF	TEST PROC,CHASSIS,INTL FLEXIBLE DISK	2269934-9901								
0031	EA	LOCKWASHER #6 INTERNAL TOOTH CRES	0411100-0071			QPL - MS3533-71					
0032	EA	CLAMP,CBL,PLASTIC,SELF-ADHESIVE,	0972741-0002								
0033	EA	WASHER-PLASTIC AND SYNTHETIC RUBBER	0418730-0107								
0034	EA	FASTENER,SPEED NUT,STL,10-32, .017 THK	0972802-0016			078553-SEE TI DWG					
0035	EA	SENS MACHINE SCREW,10-32X1/2 SLOT HEXHD	0996739-0035								
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS SUB-ASSY,S/D DRIVE,SINGLE 50HZ			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 2267290-0003		8	

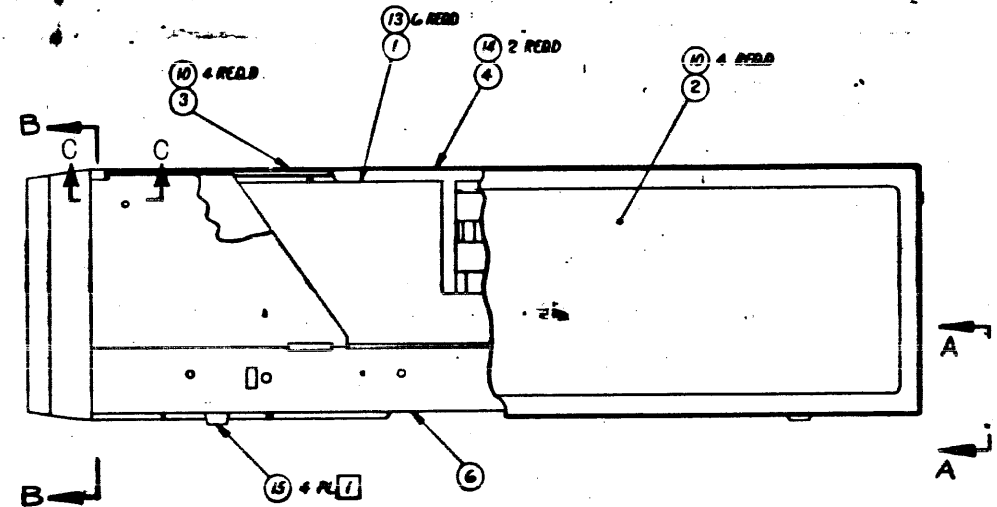
TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2267290-0004		REV 8	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION		VENDOR PART NUMBER					
0001	EA	INNER CHASSIS,FLEX DISK	2265025-0001								
0002	EA	INTERNATIONAL FLOPPY POWER SUPPLY	2261695-0001								
0003	EA	FLEXIBLE DISK DRIVE,100V 50HZ	0949910-0003								
0004	EA	FAN,AC 115V 50/60HZ 7W .06LINE/A 1650RPM RTN -027117/MOD WR2	0972479-0001								
0005	EA	TRANSFORMER,FLEXIBLE DISK DRIVE	2267250-0001								
0006	EA	AC POWER MODULE ASSY	2265040-0001								
0007	EA	LINE FILTER ASSY	2267252-0001								
0008	EA	BRACKET,MOUNTING,POWER LIGHT	2265042-0001								
0009	EA	CABLE ASSEMBLY,DC,FLEXIBLE DISK	2265009-0001								
0010	EA	CABLE ASSY,AC,FLEX DISK,SINGLE DENSITY	2265004-0002								
0011	EA	CABLE ASSEMBLY,FAN	2265012-0001								
0012	EA	CABLE ASSEMBLY,POWER INDICATOR	2265011-0001								
0013	EA	DIODE,INDICATOR,LED,SNAP-IN, RED	2210461-0001			072619-559-0101-001					
0014	REF	DIAGRAM,INTERCONNECTION,FLEX DISK DRIVE	2267251-9901								
0015	EA	SPACER,FLEXIBLE DISK	2265043-0001								
0016	EA	FASTENER,NYLON,TOGGLE	2210250-0005			078553-C60048AA-500					
0017	EA	SCREW, THREAD FORMING, #6-32	0972604-0011								
0018	EA	SCREW,THD FRMG,HEX-WSHR HD,6-32X.625LG	0972604-0013								
0019	EA	GASKET,REAR,INNER CHASSIS	2267206-0001								
0020	EA	SCREW, THREAD FORM., SLOTTED, 1-1/4 L	0972603-0017			SEE TI- DRAWING					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS SUB-ASSY,S/D DRIVE,DUAL 50HZ			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 2267290-0004		8	

TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2267290-0004		REV 8	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION		VENDOR PART NUMBER					
0021	EA	SCREW, SLOT HEX,WASHER HEAD-TAPTITE .500	0972604-0019								
0022	EA	FASTENER, SPEED NUT, STL 6-32	0972802-0004			078553-C15180-632-67					
0023	EA	ASSY, HEX NUT, LOCKWASHERS	2210006-0002			092550-SEE DRAWING					
0024	EA	NUT,U-TYPE, 8-32 X .062	0972802-0008								
0025	EA	GROMMET, PLASTIC, EDGING	0418002-0001								
0026	EA	FASTENER, SPRING STEEL	2210480-0001			078553-SEE TI DRAWING					
0028	EA	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	0418212-0040			QPL - MS3367-4-9					
0029	REF	TEST PROC,CHASSIS,INTL FLEXIBLE DISK	2269934-9901								
0031	EA	LOCKWASHER #6 INTERNAL TOOTH CRES	0411100-0071			QPL - MS3533-71					
0032	EA	CLAMP,CBL,PLASTIC,SELF-ADHESIVE,	0972741-0002								
0033	EA	WASHER-PLASTIC AND SYNTHETIC RUBBER	0418730-0107								
0034	EA	FASTENER,SPEED NUT,STL,10-32, .017 THK	0972802-0016			078553-SEE TI DWG					
0035	EA	SENS MACHINE SCREW,10-32X1/2 SLOT HEXHD	0996739-0035								
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS SUB-ASSY,S/D DRIVE,DUAL 50HZ			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 2267290-0004		8	



-0001 & -0003 SHOWN

REV.	DESCRIPTION	DATE	APPROVED
A	CN 45470(D) (1) L.M. ADDED ITEM 17 (2) CHANGED NOTE 2 FROM ITEM 16 TO ITEM 14 + 17. (3) ADDED ITEM 17 TO PICTORIAL ZONE D-5	8-9-79	J.Paez
B	CN 46235(B) (1) ADDED ITEM 18 CALLOUT PICTORIAL TO SEC. B-B (2) ZNC-5 DELETED ITEM 9 CALLOUT (3) ZNC-5 ADDED ITEM 18 ZREAD CALLOUT (4) CHANGED ITEM 17 WAS REQ. (4) ZNC-2, C-3, C-4 DELETED ITEM 12 PICTORIAL CALLOUT (5) ADDED SEC. C-C (6) L.M. -0001 & -0003 ITEM 9 QTY WAS 74 ITEM 12 QTY WAS 6 (7) L.M. -0002 & -0004 ITEM 9 QTY WAS 6 AND DELETED ITEM 12 (8) L.M. ALL DASH NO ADDED ITEM 18 (9) L.M. ALL DASH NO ITEM 15 QTY WAS 4	1-10-80	J.Paez
C	CN 46237(C) (1) L.M. ALL DASH NO. ITEM 9 WAS 0912679-0013	1-10-80	J.Paez
D	CN 462507(B) (1) ON ALL L.M. F/D & NOTE 2 DELETED ITEM 16		



PART NUMBER	DESCRIPTION
2267292-0004	FLEX DISK ASSY, TABLE TOP, DUAL 50 Hz
-0003	SINGLE 50 Hz
-0002	DUAL 60 Hz
2267292-0001	FLEX DISK ASSY, TABLE TOP, SINGLE 60 Hz

NO.	IDENT.	PROCESS	CLASSIFICATION	ADDITIONAL	NOTES

ITEM NO.	QTY	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION	NOTES
2269939	7500		FLEX DISK ASSY, TABLE TOP		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2267292-0001		REV D	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		2267290-0001	CHASSIS SUB-ASSY,S/D DRIVE,SINGLE 60HZ						
0002	0001.000	EA		2265036-0001	SIDE PANEL,TABLE TOP CHASSIS,7 IN,RIGHT						
0003	0001.000	EA		2265036-0002	SIDE PANEL,TABLE TOP CHASSIS,7 INCH,LEFT						
0004	0001.000	EA		2265031-0001	COVER,TABLE TOP CHASSIS,7 INCH						
0005	0002.000	EA		2265041-0001	AIR FILTER						
0006	0001.000	EA		2265029-0001	CHASSIS,7 INCH						
0007	0001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0008	0001.000	EA		2267282-0002	OVERLAY,S/D FRONT PANEL,DUAL DRIVE						
0009	00008.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0010	00008.000	EA		0996740-0022	SENS SCREW,THD FORM,SLTD HXHD,1/2L, 10	-SEE DRAWING					
0011	00001.000	EA		2267283-0001	PANEL,BLANK,FLEX DRIVE FRONT PANEL						
0012	00002.000	EA		2210176-0001	FASTENER,DART	078553-03619-012-67					
0013	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX MSR HD						
0014	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0015	00005.000	EA		0996219-0001	BUMPER,ADHESIVE	MMM - SJ5023					
0017	00001.000	EA		2269933-0001	LABEL,S/N,F0800A T/T INTL CHASSIS						
0018	00002.000	EA		2269937-0001	RETAINER BRACKET,SIDE PANEL						

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	FLEX DISK ASSY, TABLE TOP, S/D SINGLE 60HZ				
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7508	PART NUMBER	LM 2267292-0001	REV	D

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2267292-0002		REV D	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		2267290-0002	CHASSIS SUB-ASSY,S/D DRIVE,DUAL 60HZ						
0002	0001.000	EA		2265036-0001	SIDE PANEL,TABLE TOP CHASSIS,7 IN,RIGHT						
0003	0001.000	EA		2265036-0002	SIDE PANEL,TABLE TOP CHASSIS,7 INCH,LEFT						
0004	0001.000	EA		2265031-0001	COVER,TABLE TOP CHASSIS,7 INCH						
0005	0002.000	EA		2265041-0001	AIR FILTER						
0006	0001.000	EA		2265029-0001	CHASSIS,7 INCH						
0007	0001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0008	0001.000	EA		2267282-0002	OVERLAY,S/D FRONT PANEL,DUAL DRIVE						
0009	00008.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0010	00008.000	EA		0996740-0022	SENS SCREW,THD FORM,SLTD HXHD,1/2L, 10	-SEE DRAWING					
0013	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX MSR HD						
0014	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0015	00005.000	EA		0996219-0001	BUMPER,ADHESIVE	MMM - SJ5023					
0017	00001.000	EA		2269933-0001	LABEL,S/N,F0800A T/T INTL CHASSIS						
0018	00002.000	EA		2269937-0001	RETAINER BRACKET,SIDE PANEL						

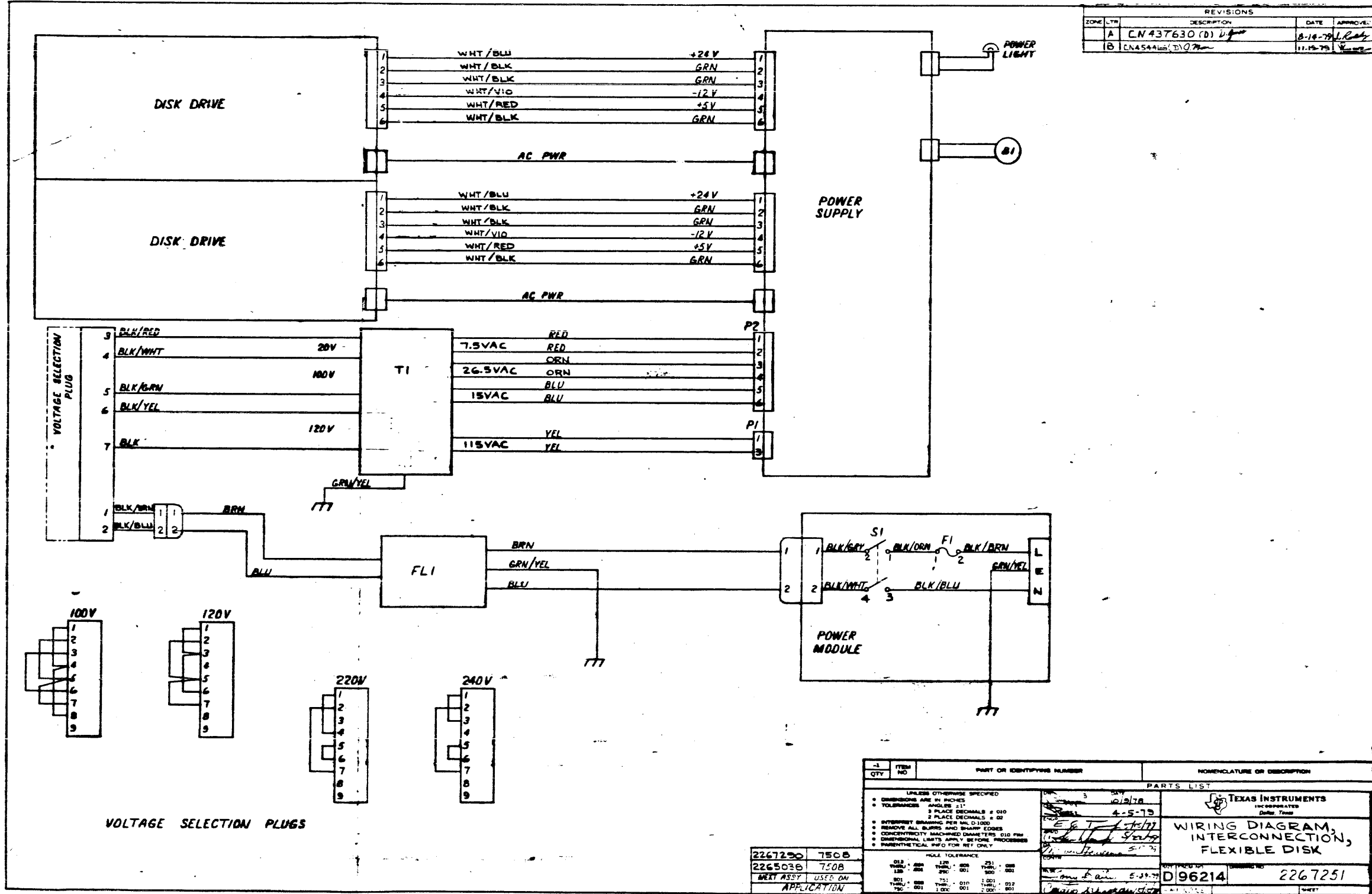
DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	FLEX DISK ASSY, TABLE TOP, S/D DUAL 60HZ				
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 2267292-0002	REV	D

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2267292-0003		REV D	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		2267290-0003	CHASSIS SUB-ASSY,S/D DRIVE,SINGLE 50HZ						
0002	0001.000	EA		2265036-0001	SIDE PANEL,TABLE TOP CHASSIS,7 IN,RIGHT						
0003	0001.000	EA		2265036-0002	SIDE PANEL,TABLE TOP CHASSIS,7 INCH,LEFT						
0004	0001.000	EA		2265031-0001	COVER,TABLE TOP CHASSIS,7 INCH						
0005	0002.000	EA		2265041-0001	AIR FILTER						
0006	0001.000	EA		2265029-0001	CHASSIS,7 INCH						
0007	0001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0008	0001.000	EA		2267282-0002	OVERLAY,S/D FRONT PANEL,DUAL DRIVE						
0009	00008.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0010	00008.000	EA		0996740-0022	SENS SCREW,THD FORM,SLTD HXHD,1/2L, 10	-SEE DRAWING					
0011	00001.000	EA		2267283-0001	PANEL,BLANK,FLEX DRIVE FRONT PANEL						
0012	00002.000	EA		2210176-0001	FASTENER,DART	078553-03619-012-67					
0013	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX MSR HD						
0014	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0015	00005.000	EA		0996219-0001	BUMPER,ADHESIVE	MMM - SJ5023					
0017	00001.000	EA		2269933-0001	LABEL,S/N,F0800A T/T INTL CHASSIS						
0018	00002.000	EA		2269937-0001	RETAINER BRACKET,SIDE PANEL						

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	FLEX DISK ASSY, TABLE TOP, S/D SINGLE 50HZ				
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 2267292-0003	REV	D

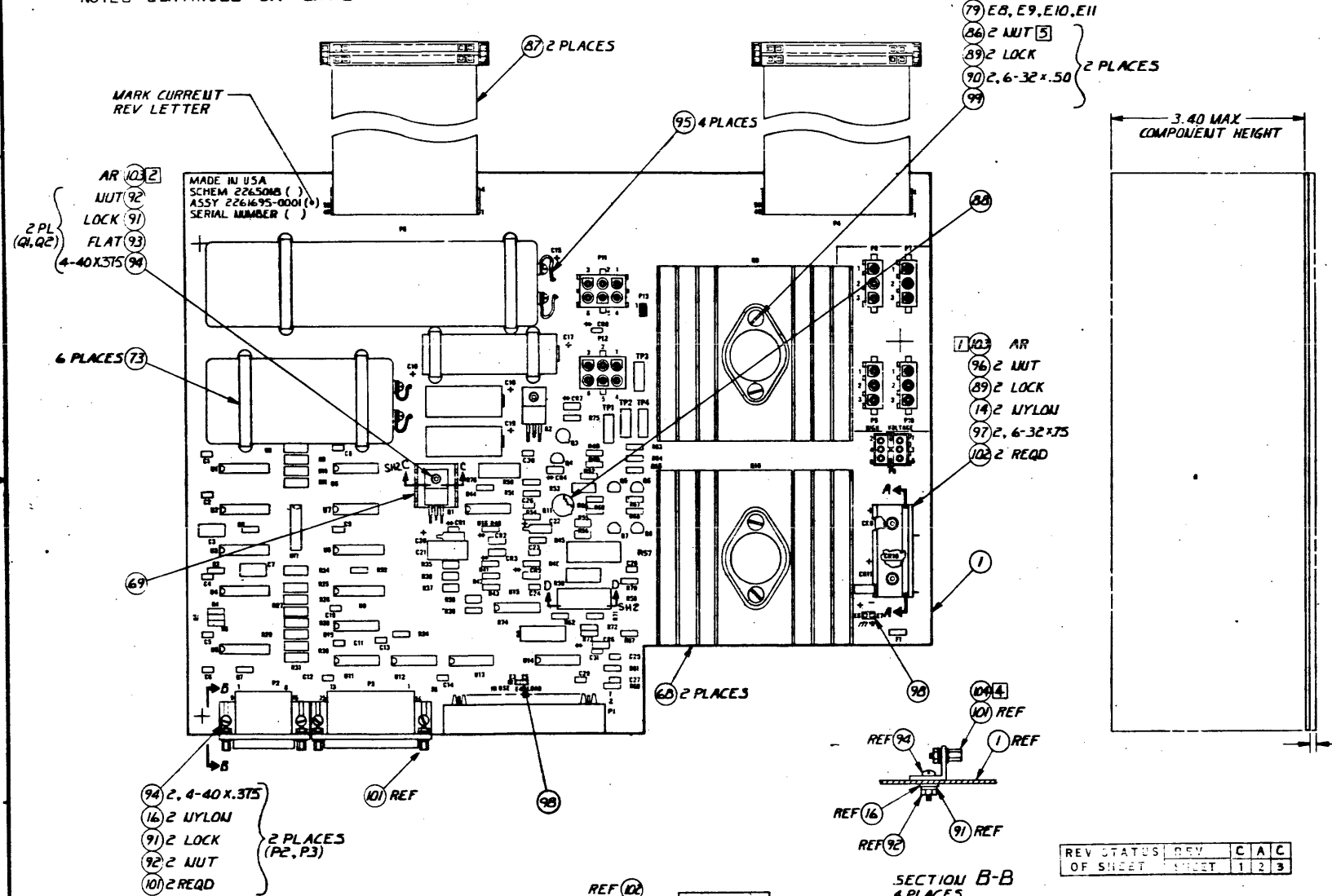
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PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		2267290-0004	CHASSIS SUB-ASSY,S/D DRIVE,DUAL 50HZ						
0002	0001.000	EA		2265036-0001	SIDE PANEL,TABLE TOP CHASSIS,7 IN,RIGHT						
0003	0001.000	EA		2265036-0002	SIDE PANEL,TABLE TOP CHASSIS,7 INCH,LEFT						
0004	0001.000	EA		2265031-0001	COVER,TABLE TOP CHASSIS,7 INCH						
0005	0002.000	EA		2265041-0001	AIR FILTER						
0006	0001.000	EA		2265029-0001	CHASSIS,7 INCH						
0007	0001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0008	0001.000	EA		2267282-0002	OVERLAY,S/D FRONT PANEL,DUAL DRIVE						
0009	00008.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0010	00008.000	EA		0996740-0022	SENS SCREW,THD FORM,SLTD HXHD,1/2L, 10	-SEE DRAWING					
0013	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX MSR HD						
0014	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0015	00005.000	EA		0996219-0001	BUMPER,ADHESIVE	MMM - SJ5023					
0017	00001.000	EA		2269933-0001	LABEL,S/N,F0800A T/T INTL CHASSIS						
0018	00002.000	EA		2269937-0001	RETAINER BRACKET,SIDE PANEL						

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	FLEX DISK ASSY, TABLE TOP, S/D DUAL 50HZ				
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 2267292-0004	REV	D



NOTES UNLESS OTHERWISE SPECIFIED
 1. APPLY GREASE (ITEM 103) BETWEEN RECTIFIERS (ITEM 48) AND BETWEEN HEATSINKS (ITEM 102) PER SECTION A-A
 2. APPLY GREASE (ITEM 103) BETWEEN Q1 (ITEM 58) AND HEATSINK (ITEM 69)
 3. ITEM 100 CONTAINS PARTS THAT ARE AUTO-INSERTED AND CONTAINED IN THE -5001 LM
 NOTES CONTINUED ON SHT 2

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	EN45323(B) (1) REVISED PER EXTENSIVE ENGRG CHANGES (2) UPDATED REV LEVEL BLOCK 3 ADDED SH2	3-17-80	J.R. [Signature]
B	EN45323(B) (1) REVISED PER EXTENSIVE ENGRG CHANGES (2) UPDATED REV LEVEL BLOCK 3 ADDED SH2 ADDED ITEMS 104 THRU 108 & ITEM 32 QTY WAS 1 IN -5001 LM ITEM 21, 29, 32 & 34 QTY WAS 2, 1, 4 & 2 RESP. ITEM 24 PN WAS 539370-0581 (3) UPDATED REV LEVEL BLOCK	3-17-80	J.R. [Signature]
C	LN450528 (B) REWORK (1) ADDED SH. 3 (2) UPDATED REV LEVEL BLOCK	3-17-80	J.R. [Signature]



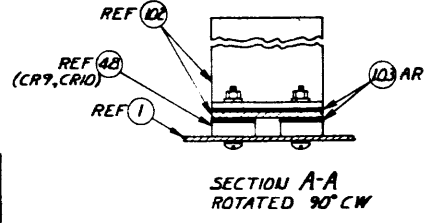
PART NUMBER	DESCRIPTION
2261695-0001	INTERNATIONAL FLOPPY POWER SUPPLY
3 2261695-5001	AUTO-INSERTED PARTS LIST FOR 2261695-0001
2261695-0001	INTERNATIONAL FLOPPY POWER SUPPLY

REV LEVEL	TEST PROCEDURE	2265014-9901	*	*	*	*
	LOGIC DIAG	2265018-9901	* <td>* <td>A</td> <td>A</td> </td>	* <td>A</td> <td>A</td>	A	A
	PWB	2261696-0001	* <td>F</td> <td>F</td> <td>F</td>	F	F	F
	ASSEMBLY	2261695-0001	* <td>A</td> <td>B</td> <td>C</td>	A	B	C

3	MARK	100-02	21	HGT .06, CLR BLACK
2	SLDR	127-01	00	
1	SLDR	124-02	00	

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

PROCESSES — FOR CORRELATION TO GOVT IND SPECIFICATIONS SEE TI DRAWING 729467



SECTION B-B
 4 PLACES
 ROTATED 90° CCW

REV STATUS	REV	C	A	C
OF SHEET	SHEET	1	2	3

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED			
• DIMENSIONS ARE IN INCHES	• ANGLES ±1°	• 3 PLACE DECIMALS = .010	• 2 PLACE DECIMALS = .02
• INTERPRET DRAWING PER MIL-D-1000	• REMOVE ALL BURRS AND SHARP EDGES	• CONCENTRICITY MACHINED DIAMETERS 0.10 FIM	• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
• PARENTHEICAL INFO FOR REF ONLY			

DATE	BY	CHKD	APPD
6-18-79	[Signature]	[Signature]	[Signature]

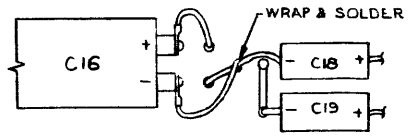
REV	DATE	BY	CHKD	APPD
7508				

REV	DATE	BY	CHKD	APPD
D96214				

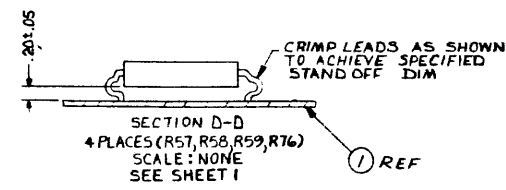
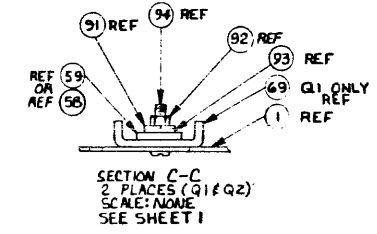
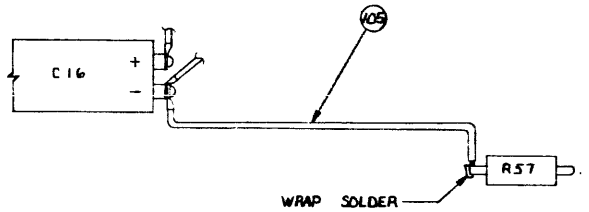
TXI	REV	DATE	BY	CHKD	APPD
INTERNATIONAL FLOPPY POWER SUPPLY					

NOTES: (CONTINUED)

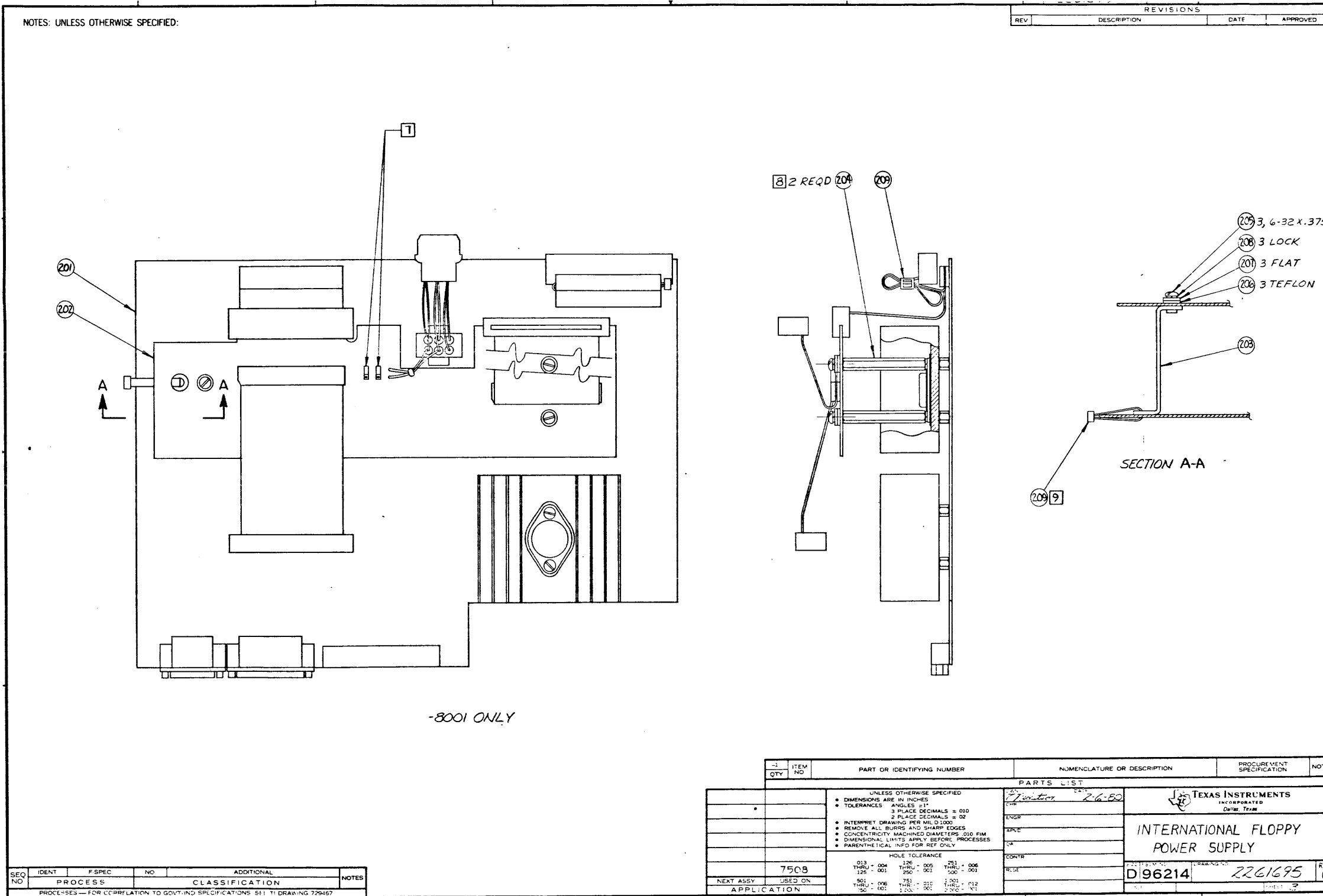
- 4. APPLY SEALANT (ITEM 104) TO EXTERNAL THREADS OF ITEM 101 DURING HARDWARE ASSY
- 5. STAKE NUTS (ITEM 86) TO PWB AND SOLDER BOTH SIDES
- 6. REWORK PROCEDURE FOR REV# PWB'S ONLY:
 - A. CHANGE R53 (ITEM 51) FROM 3.3K TO 1.0K
 - B. UNSOLDER THE NEGATIVE LEAD OF C16 FROM PWB AND MOVE THE NEGATIVE LEAD OF C16 INTO THE C16 NEGATIVE LEAD HOLE. CLIP AND SOLDER THE NEGATIVE LEAD OF C16. WRAP THE NEGATIVE LEAD OF C16 AROUND THE NEGATIVE LEAD OF C18 AND SOLDER
- 7. FOR PRIMARY DRIVES 1 AND 2 USE E1 TO E2 AND E4 TO E5 FOR SECONDARY DRIVES 3 AND 4 USE E2 TO E3 AND E5 TO E6
- 8. REMOVE EXISTING SCREW AND DISCARD. USE EXISTING LOCK WASHER WHEN INSTALLING THIS ITEM. 2 PLACES
- 9. REMOVE THIS TIE WRAP BEFORE INSTALLING POWER SUPPLY IN FLOPPY CHASSIS



C. ADD A JUMPER (ITEM 105) BETWEEN THE NEGATIVE TERMINAL OF C16 AND THE NEAR END OF R57 AS SHOWN BELOW:



TEXAS INSTRUMENTS	DATE	SIZE / PFORM NO.	DRAWING NO.	REV.
	8/1/81	D 96214	2261695	A
	ISSUE DATE	SCALE	SHEET	



TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261695-0001		REV C	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0002	REF	EA		2265010-9901	LOGIC DIAG-INTL FLOPPY POWER SUPPLY				
0003	REF	EA		2265014-9901	TEST PROC-INTL FLOPPY POWER SUPPLY				
0004	REF	EA		2265001-9901	SPEC, CHASSIS, INTL FLOPPY DISK				
0014	00002.000	EA		0418730-0105	WASHER 6 x FLAT TEFLON	SEE TI- DRAWING			
0016	00004.000	EA		0418730-0103	WASHER, NO. 4 X .125, PLASTIC	UPL - NAS1515H04L			
0019	00001.000	EA		0539795-0004	RESISTOR, VARIABLE 500 OHM CERMET FILM	MOU - 3069P-1-501			
0019A					R74				
0029	00001.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	RLH - R-25			
0029A					R3				
0032	00002.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	RDH - R-25			
0032A					R34 R70				
0035	00002.000	EA		0972942-0001	RES FIX 0.10 OHMS 10% 5W MM	IRC - AS-5			
0035A					R57 R59				
0036	00001.000	EA		0972833-0136	RES, MM, FXD, 2 WATT, 1.5K OHMS, 5%	044655-SEE DWG			
0036A					R58				
0037	00001.000	EA		0972927-0017	CAP FIX MICA 500V 39.0 PF 5%	UPL - LM05E390J00			
0037A					C7				
0038	00001.000	EA		0972927-0037	CAP FIX MICA 500V 270 PF 5%	UPL - LM05E271J00			
0038A					C3				
0040	00001.000	EA		0972757-0013	CAP., FIXED, AXIAL LEAD, 1000 PF, 100, 50V				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	TITLE			
			J. R. ...	2-22-80		INTERNATIONAL FLOPPY POWER SUPPLY			
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
							7508	LM 2261695-0001	C

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2261695-0001		REV C	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0040A					L31				
0042	00001.000	EA		0507315-0048	CAPACITOR, .75UF 40V +75/-10% ELCTLT, ALUM	056289-390754G040E5			
0042A					C18				
0043	00001.000	EA		0507315-0049	CAPACITOR, .45UF 10V +75/-10% ELCTLT, ALUM	056289-390257G010E5			
0043A					C19				
0044	00001.000	EA		0507315-0050	CAPACITOR, .500UF 30V +75/-10% ELCTLT, ALUM	056289-390507G030FLS			
0044A					C17				
0045	00001.000	EA		0972930-0035	CAPACITOR 4800.0UF 50V +75/-10%ALUMINUM	056289-360X48G050A02			
0045A					C16				
0046	00001.000	EA		0972930-0015	CAPACITOR, 20000UF, 25V, 10% Fx, ALUM ELCTLT	056289-360X2036025AF2			
0046A					C15				
0047	00004.000	EA		0232163-0000	TIP JACK, PCB MOUNTING, RED	SEE TI- DRAWING			
0047A					T01 T02 T03 T04				
0048	00002.000	EA		0972805-0001	RECTIFIER, BRIDGE, 10A, 400V				
0048A					CR9 CR10				
0049	00001.000	EA		0872804-0001	RECTIFIER, BRIDGE, 1A, 400V				
0049A					CR11				
0054	00001.000	EA		0972803-0001	TRANSISTOR TIP640 DARLINGTON, POWER MPN	TI - TIP640			
0054A					Q10				
0055	00001.000	EA		0972784-0001	TRANSISTOR, TIP645 PNP SILICON DARL				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	TITLE			
						INTERNATIONAL FLOPPY POWER SUPPLY			
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM 2261695-0001	C

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 2261695-0001		REV C	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0055A					Q9				
0056	00002.000	EA		0800523-0001	TRANSISTOR AST2807 PNP SILICON	TI- -AST2807			
0056A					Q4 Q5				
0057	00003.000	EA		0972057-0001	TRANSISTOR-AST2222 MPN SILICON	TI- -AST2222			
0057A					Q6 Q7 Q8				
0058	00001.000	EA		0896461-0002	IC, VOLTAGE REGTR 3 TERMINAL -12 VOLTS	007263-0A79H12AUC			
0058A					Q1				
0059	00001.000	EA		0972546-0002	TRIAC, SILICON-12A TIC126A				
0059A					Q2				
0060	00001.000	EA		0972948-0002	TRANSISTOR, 2N2222A MPN GEN PURP 5W TO-18	TI - 2N2222A			
0060A					Q3				
0061	00001.000	EA		0539879-0001	TRANSISTOR 2N3725A	TI - 2N3725A			
0061A					Q11				
0064	00001.000	EA		2210154-0015	HEADER, POLARIZED AND LATCHING, 50 PINS	000779-86476-7			
0064A					P1				
0065	00001.000	EA		0972620-0001	CONN, PLUG, PC 80-15 POSITION	AMP - 206913-2			
0065A					P2				
0066	00001.000	EA		0972708-0001	CONNECTOR, RS-232, PWB MTC.				
0066A					P3				
0067	00001.000	EA		0972833-0058	RESISTOR, 22 OHM, 2W 5% MM FIXED	044655-SERIES 22UR 45			
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	TITLE			
						INTERNATIONAL FLOPPY POWER SUPPLY			
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM 2261695-0001	C

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 2261695-0001		REV C	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0067A					R26				
0068	00002.000	EA		0949371-0001	HEATSINK, TRANSISTOR				
0069	00001.000	EA		0946285-0004	HEATSINK, TRANSISTOR .750 X .750	013103-6073H			
0070	00004.000	EA		0972423-0005	CONNECTOR PWB MOUNTED 3 CONTACTS NATURAL	017105-350429-1			
0070A					P7 P8 P9 P10				
0071	00002.000	EA		0972423-0002	CONN, UNLN PWB MTD, 6 CIRCUIT				
0071A					P11 P12				
0072	00001.000	EA		0537399-0012	FUSE 5AMP .014 OHM	LIT - 276005			
0072A					F1				
0073	00006.000	EA		0418212-0010	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	UPL - MS3367-1+9			
0079	00004.000	EA		0946394-0001	MINIATURE SPRING SOCKET	000779-050465			
0079A					E8 E9 E10 E11				
0083	00001.000	EA		0972175-0004	CONNECTOR, NYLON .062 PWB 6 CIRCUIT	SEE - TI DRAWING			
0083A					P6				
0086	00001.000	EA		0946311-0015	CAPACITOR, 1.0000 UF 100 VOL 10%				
0086A					C21				
0085	00001.000	EA		0800118-0013	RESISTOR, FIXED-ARRAY, 4-7K				
0085A					U17				
0086	00004.000	EA		0803153-0038	NUT, .138-32 X .188 .18801A SLV-SHLDN BR5	071279-3924-10			
0087	00002.000	EA		226284-0001	CABLE ASSY, PENDENT, INTERNATIONAL FLOPPY				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	TITLE			
						INTERNATIONAL FLOPPY POWER SUPPLY			
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM 2261695-0001	C

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 2261695-0001		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0088	00001.000	EA		0232583-0008	TU-5 MOUNTING PAD, 4-LEADS, NYLON	SEE TI- DRAWING						
0089	00006.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRCS	QPL - MS35333-71						
0090	00004.000	EA		0972988-0030	SCREW 6-32 X .500 PAN HEAD CRCS							
0091	00006.000	EA		0411104-0135	WASHER, LOCK-SPRING, HELICAL, #4	QPL - MS35338-135						
0092	00006.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRCS STEEL	MS - 35649-244						
0093	00002.000	EA		0416622-0011	WASHER #4 FLAT	QPL - AN96044L						
0094	00006.000	EA		0972988-0015	SCREW 4-40 X .375 PAN HEAD CRCS							
0095	00004.000	EA		2269926-0001	JUMPER, RMB/CAPACITOR							
0096	00002.000	EA		0411115-0064	NUT, PLAIN 6-32 UNC-2B HEX CRCS	QPL - MS35649-264						
0097	00002.000	EA		0972988-0032	SCREW 6-32 X .750 PAN HEAD CRCS							
0098	00002.000	EA		0972487-0001	JUMPER PLUG, CONNECTOR BLACK							
0099	00002.000	EA		0802373-0007	INSULATOR, PLATE	018565-60-11-4511-164						
0100	00001.000	EA		2261695-5001	AUTO-INSERTED PARTS LIST FOR 2261695-1							
0101	00004.000	EA		0808129-0001	CONNECTOR, ELECT SCREW-LOCK ASSY FEMALE	081349-N24308/20-1						
0102	00002.000	EA		2265024-0001	HEATSINK, POWER SUPPLY, FLEXIBLE DISK							
0103	00001.000	EA		0415886-0001	GREASE, SILICONE, HEAT COND. (8 OZ TUBE)	WAK - 120						
0104	AR	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C							
0105	00001.000	EA		2269926-0002	JUMPER, GROUND/CAPACITOR							
0106	00001.000	EA		0972946-0097	RES FIX 22 K OHM 5 % .25 W CARBON FILM	R0H - R-25						
0106A					R39							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE INTERNATIONAL FLOPPY POWER SUPPLY					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. PART NUMBER LM 2261695-0001					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 2261695-0001		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0107	00000.050	FT		0535978-0072	WIRE #30 AWG GRAY ELECT. SOLID KYNAR	BR - 09755						
0108	00001.000	EA		0972978-0085	RES FIX COMP 1.0 W 220 OHMS 5 %	QPL - KC320221JS						
0108A					R77							
0109	00000.100	FT		0411400-0020	WIRE #20 ELECTRO-TIN-PLATED COPPER							
0110	00000.150	FT		0410499-0007	INSULATION SLEEVING, TEFLON #20 NATURAL	QPL - 81349						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE INTERNATIONAL FLOPPY POWER SUPPLY					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. PART NUMBER LM 2261695-0001					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261695-5001		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2261696-0001	PWB, POWER SUPPLY, INTERNATIONAL FLOPPY							
0005	00001.000	EA		0972669-0001	NETWORK, SN74LS163N							
0005A					U8							
0006	00001.000	EA		0972120-0001	NETWORK, SN74259 8-BIT ADDRESSABLE LATCH	001245-74259						
0006A					U9							
0007	00001.000	EA		0972793-0001	IC, MONOSTABLE MV SN74LS123N							
0007A					U3							
0008	00001.000	EA		0801383-0001	NETWORK SN74LS151N							
0008A					U2							
0009	00001.000	EA		0972639-0001	NETWORK, SN75113N							
0009A					U1							
0010	00002.000	EA		0972189-0002	NETWORK SN75115N	-II-SN75115N						
0010A					U4 U5							
0011	00002.000	EA		0972946-0027	RES FIX 27.0 OHM 5 % .25 W CARBON FILM	R0H - R-25						
0011A					R50 R63							
0012	00002.000	EA		0972947-0034	RES FIX 51 OHM 5 % .5 W CARBON FILM	R0H - R-50						
0012A					R8 R9 R10 R11 R24 R25 R26							
0012B					R27 R28 R29 R30 R31							
0013	00004.000	EA		0972946-0051	RES FIX 270 OHM 5 % .25 W CARBON FILM	R0H - R-25						
0013A					R4 R5 R6 R7							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO-INSERTED PARTS LIST FOR 2261695-1					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. PART NUMBER LM 2261695-5001					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2261695-5001		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0015	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	R0H - R-25						
0015A					R67							
0017	00001.000	EA		0972946-0096	RES FIX 20 K OHM 5 % .25 W CARBON FILM	R0H - R-25						
0017A					R2							
0018	00001.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	R0H - R-25						
0018A					R75							
0020	00001.000	EA		0539370-0356	RES FIX FILM 499 OHM 1% .25 WATT	C0R - NA55						
0020A					R36							
0021	00001.000	EA		0539370-0385	RES FIX FILM 1.00K OHM 1% .25 WATT	C0R - NA55						
0021A					R56							
0022	00001.000	EA		0539370-0433	RES FIX FILM 3.16K OHM 1% .25 WATT	C0R - NA55						
0022A					R35							
0023	00001.000	EA		0539370-0441	RES FIX FILM 3.83K OHM 1% .25 WATT	C0R - NA55						
0023A					R55							
0024	00001.000	EA		0972946-0125	RES FIX 330K OHM 5 % .25 W CARBON FILM	R0H - R-25						
0024A					R37							
0025	00001.000	EA		0539370-0417	RES FIX FILM 2.15K OHM 1% .25 WATT	C0R - NA55						
0025A					R72							
0026	00003.000	EA		0972946-0041	RES FIX 100 OHM 5 % .25 W CARBON FILM	R0H - R-25						
0026A					R48 R49 R65							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO-INSERTED PARTS LIST FOR 2261695-1					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. PART NUMBER LM 2261695-5001					

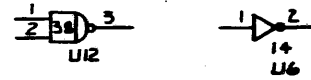
TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 2261695-5001		REV C	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0027	00001.000	EA		0972946-0059	RES FIX 500 OHM 5 1/2 .25 W CARBON FILM	R1H - R-25					
0027A					R71						
0028	00001.000	EA		0972946-0062	RES FIX 750 OHM 5 1/2 .25 W CARBON FILM	R1H - R-25					
0028A					R73						
0029	00010.000	EA		0972946-0065	RES FIX 1.0K OHM 5/8 .25 W CARBON FILM	R1H - R-25					
0029A					R33 R41 R43 R44 R45 R46						
0029B					R51 R60 R68 R70						
0030	00001.000	EA		0972946-0077	RES FIX 3.3K OHM 5 1/2 .25 W CARBON FILM	R1H - R-25					
0030A					R66						
0031	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 1/2 .25 W CARBON FILM	R1H - R-25					
0031A					R54						
0032	00006.000	EA		0972946-0089	RES FIX 10K OHM 5/8 .25 W CARBON FILM	R1H - R-25					
0032A					R30 R42 R52 R61 R64 R69						
0033	00001.000	EA		0972946-0105	RES FIX 67 K OHM 5 1/2 .25 W CARBON FILM	R1H - R-25					
0033A					R47						
0034	00001.000	EA		0972946-0113	RES FIX 100K OHM 5 1/2 .25 W CARBON FILM	R1H - R-25					
0034A					R40						
0039	00017.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%	C1 C2 C4 C5 C6 C8 C9 C10					
0039A					C11 C22 C23 C16 C24 C27 C28						
0039B											
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 2261695-1											
APP'D MFC DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2261695-5001 C											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 2261695-5001		REV C	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0039C					C29 C30						
0040	00003.000	EA		0972757-0013	CAP.,FIXED,AXIAL LEAD,1000 PF,10X,50V						
0040A					C23 C25 C26						
0041	00002.000	EA		0972924-0017	CAP FIX TANT SULLIN 1.0 MFD 10 4 35 VOLT	SPR -150U105X9035A					
0041A					C20 C22						
0050	00002.000	EA		0539448-0007	DIODE,1N4007 LAMP 1000FIV RECTIFIER	TI -1N4007					
0050A					CR1 CR8						
0051	00003.000	EA		0972932-0001	DIODE 1N914B	SEE TI- DRAWING					
0051A					CR2 CR3 CR7						
0052	00001.000	EA		0972934-0014	DIODE,1N750A 12.0 V 58 SIL VOLT REG	QPL - 1N750A					
0052A					CR5						
0053	00001.000	EA		0972934-0007	DIODE,1N752A 5.6 V 58 SIL VOLT REG	QPL - 1N752A					
0053A					CR4						
0062	00001.000	EA		0972395-0001	NETWORK,LM324N QUAD OP AMP	-LM324N					
0062A					U15						
0063	00002.000	EA		0972662-0001	NETWORK,SN74723N						
0063A					U14 U16						
0074	00007.000	EA		0972456-0004	PIN,.025 SQUARE .44BLG .320 INSTALLED LG	022526-75401-004					
0074A					E3 E4 E5 E6 E7 P13						
0075	00001.000	EA		0222222-7407	NETWORK-SN7407N	TI- -SN7407N					
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 2261695-1											
APP'D MFC DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2261695-5001 C											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 2261695-5001		REV C	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0075A					U7						
0076	00001.000	EA		0222222-7414	NETWORK SN7414N						
0076A					U6						
0077	00003.000	EA		0222222-7438	NETWORK SN7438N						
0077A					U11 U12 U13						
0078	00001.000	EA		0222222-7406	NETWORK SN7406N						
0078A					U10						
0080	00001.000	EA		0972946-0083	RES FIX 5.6K OHM 5 1/2 .25 W CARBON FILM	R1H - R-25					
0080A					R62						
0081	00001.000	EA		0972947-0065	RES FIX 1.0K OHM 5/8 .5 W CARBON FILM	R1H - R-50					
0081A					R53						
0082	00001.000	EA		0972934-0008	DIODE,1N753A 6.2 V 58 SIL VOLT REG	QPL - 1N753A					
0082A					CR6						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 2261695-1											
APP'D MFC DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2261695-5001 C											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261695-8001		REV C	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0201	00001.000	EA		2261695-0001	INTERNATIONAL FLOPPY POWER SUPPLY						
0202	00001.000	EA		2271670-0001	DS1 INTERFACE						
0203	00001.000	EA		2269982-0001	BRACKET,INTERFACE MOUNTING						
0204	00002.000	EA		2269983-0001	STANDOFF						
0205	00003.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES						
0206	00003.000	EA		0418730-0105	WASHER # 6 FLAT TEFLOM	SEE TI- DRAWING					
0207	00003.000	EA		0411027-0006	WASHER, #6 FLAT, CRES, .156 X .375 X .049	QPL - MS15795-806					
0208	00003.000	EA		0411104-0136	WASHER, LOCK-SPRING, MELICAL, #6	QPL - MS35330-136					
0209	00002.000	EA		0972632-0005	STRAP,TIE DOWN,CABLE-NGN-STANDARD	PND - 55T31					
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE INTERNATIONAL FLOPPY POWER SUPPLY											
APP'D MFC DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2261695-8001 C											

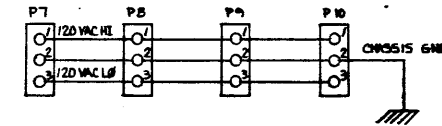
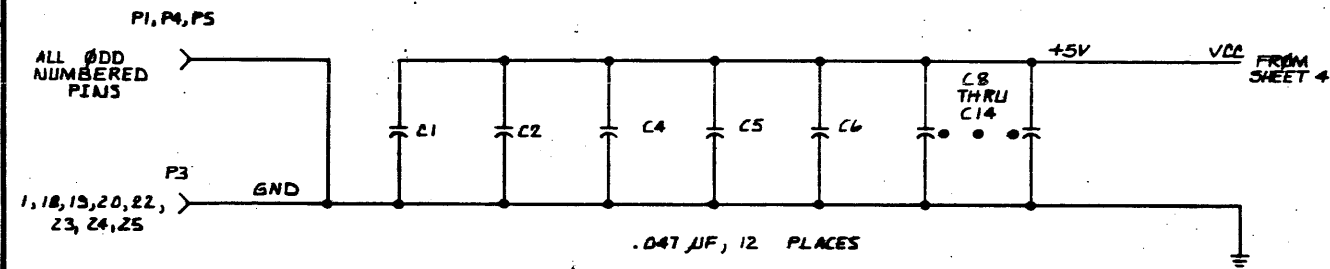
- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES PREFIXED WITH SN74.
 2. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
 3. GND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
 4. DEVICE TYPE, PIN NUMBERS, AND REF DESIGNATION OF IC IS SHOWN AS FOLLOWS:



3# AND 14# = DEVICE TYPE
1 2 AND 3 = PIN NUMBERS
U12 AND U16 = REF DESIGNATION

5. GROUND SYMBOLS SHOWN AS FOLLOWS:
6. THREE-PIN IC CONNECTORS CAN BE PLUGGED INTO ANY THREE-PIN PWB CONNECTOR (P7-P10)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN454453 (D) JB Kappan	6-20-79	[Signature]
B	CN459313 (C) JB Kappan	3-20-80	[Signature]

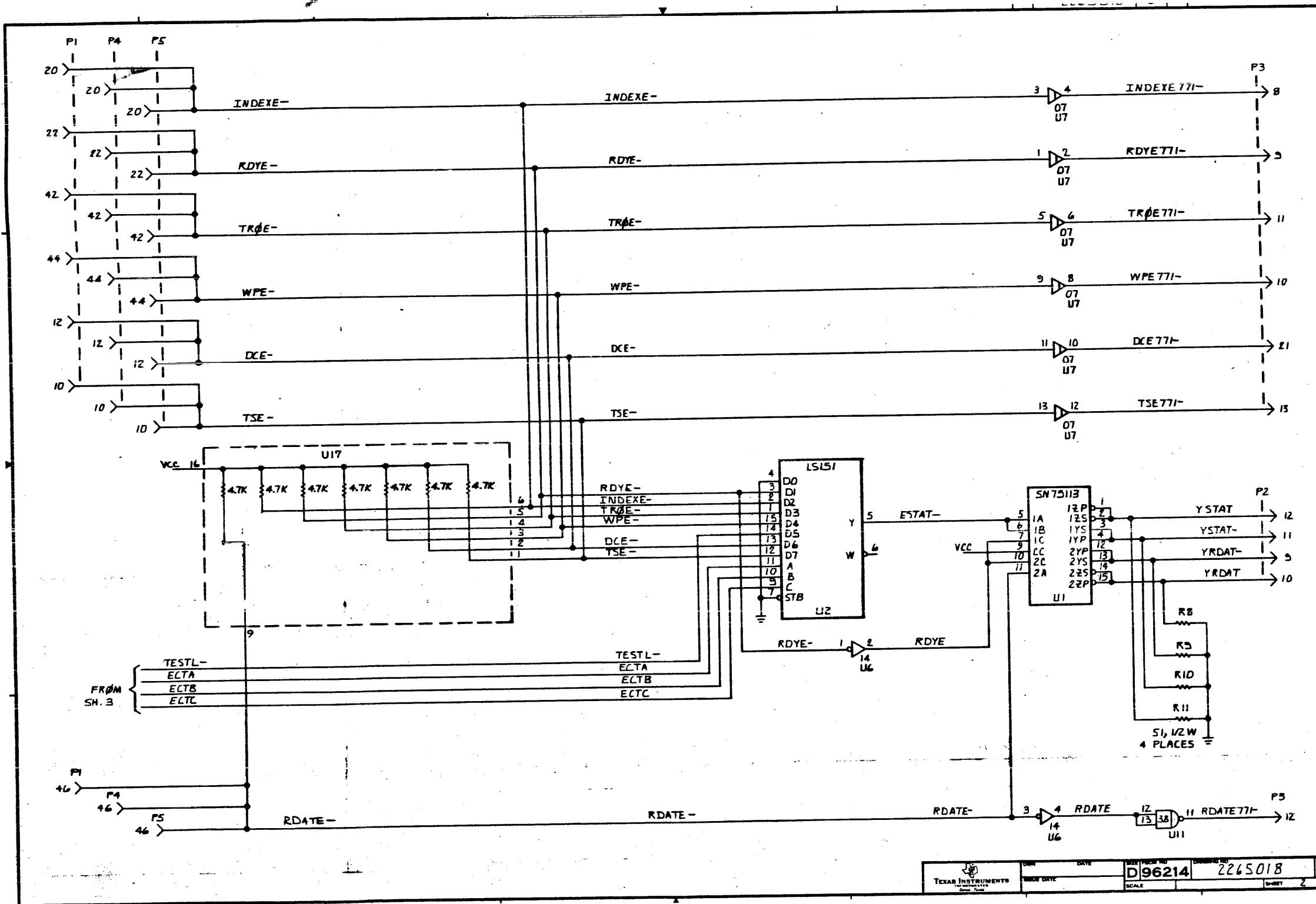


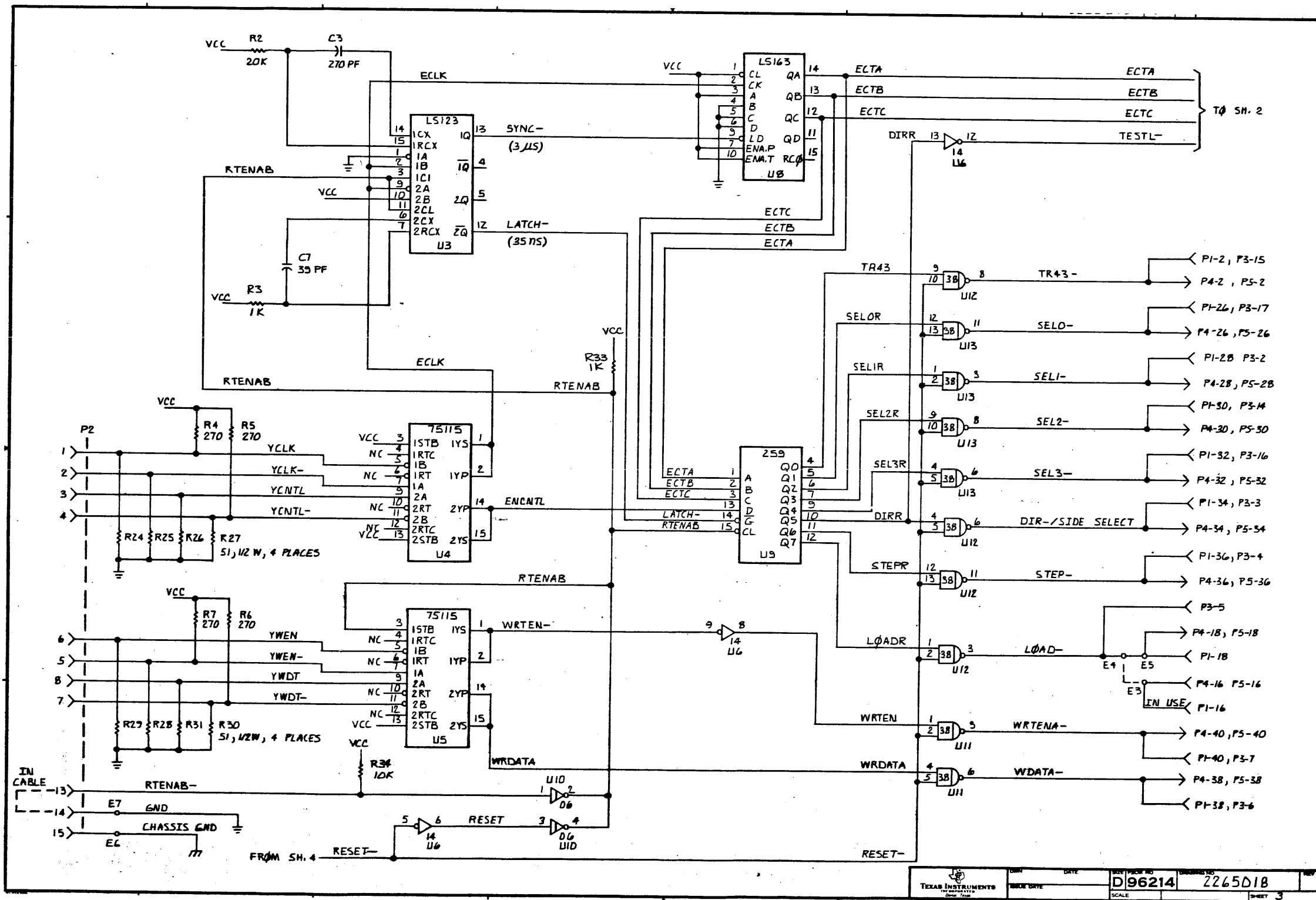
REV STATUS	REV	B	#	B
OF SHEETS	SHEET	1	3	4

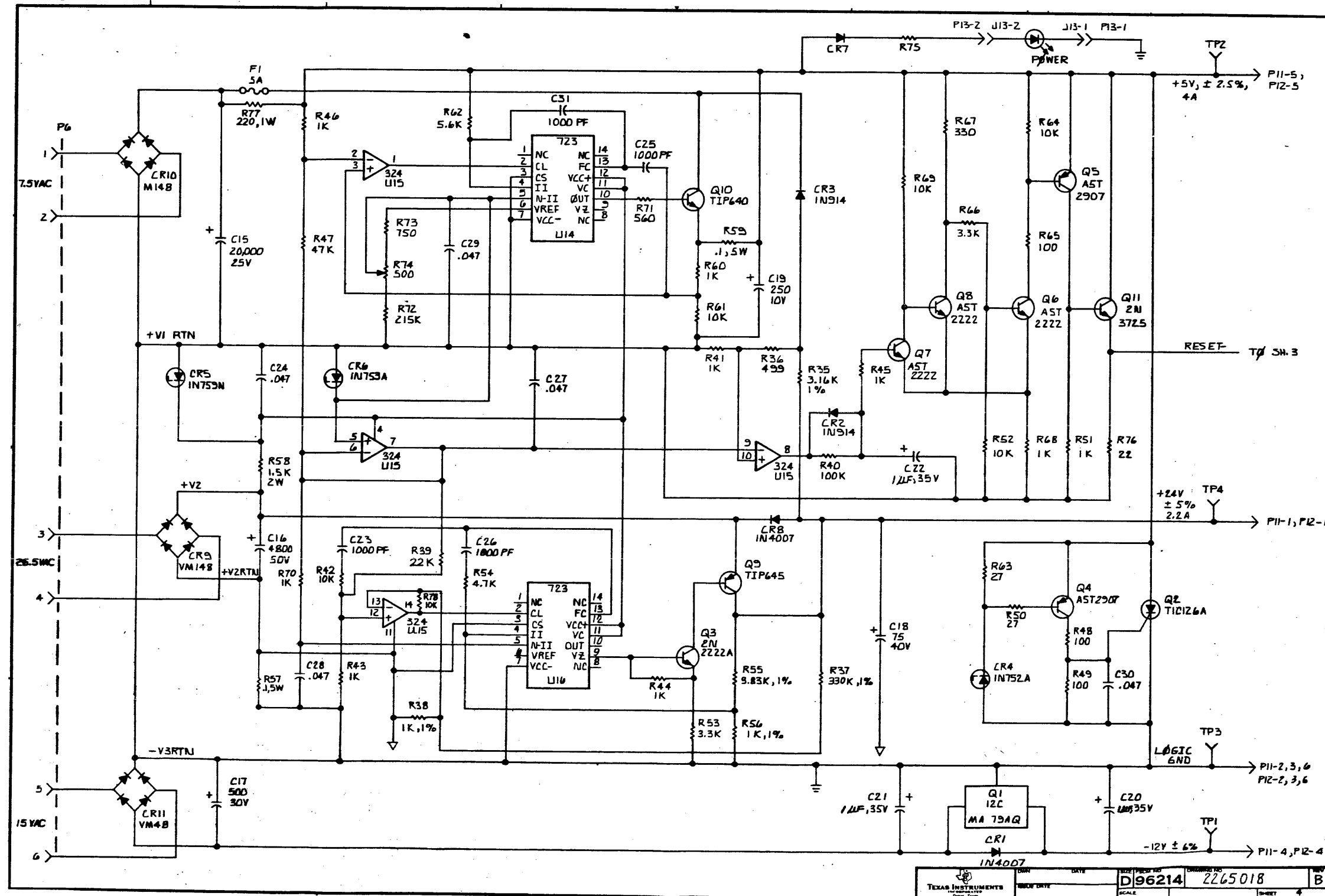
SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED: • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±1° • 3 PLACE DECIMALS ±.020 • 2 PLACE DECIMALS ±.02 • INTERPRET DRAWINGS PER MIL-D-1000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS .000 FIM • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHEMETICAL INFO FOR REF ONLY	HOLE TOLERANCE .013 THRU .030 ±.002 .031 THRU .050 ±.003 .051 THRU .070 ±.004 .071 THRU .100 ±.005 .101 THRU .150 ±.006 .151 THRU .200 ±.007 .201 THRU .300 ±.008 .301 THRU .500 ±.010 .501 THRU 1.000 ±.012 1.001 THRU 2.000 ±.015 2.001 THRU 5.000 ±.020 5.001 THRU 10.000 ±.025 10.001 THRU 30.000 ±.030 30.001 THRU 100.000 ±.035 100.001 THRU 200.000 ±.040 200.001 THRU 500.000 ±.050 500.001 THRU 1000.000 ±.060	DATE: 4/5/79 C. Ketter 4/9/79 4/13/79 7-17-79 7-18-79	TEXAS INSTRUMENTS INCORPORATED Dallas, Texas LOGIC DIAGRAM, INTERNATIONAL FLOPPY POWER SUPPLY
2261695 7508 NEXT ASSY USED ON: APPLICATION:	D 96214 2265018 SCALE: NONE	SHEET 1 OF 4	







DESIGNER	DATE	SIZE	PRINTED	REV	DATE	SCALE	DRAWING NO.	REV	DATE	
							D96214	2265018		
TEXAS INSTRUMENTS							SCALE		SHEET	4

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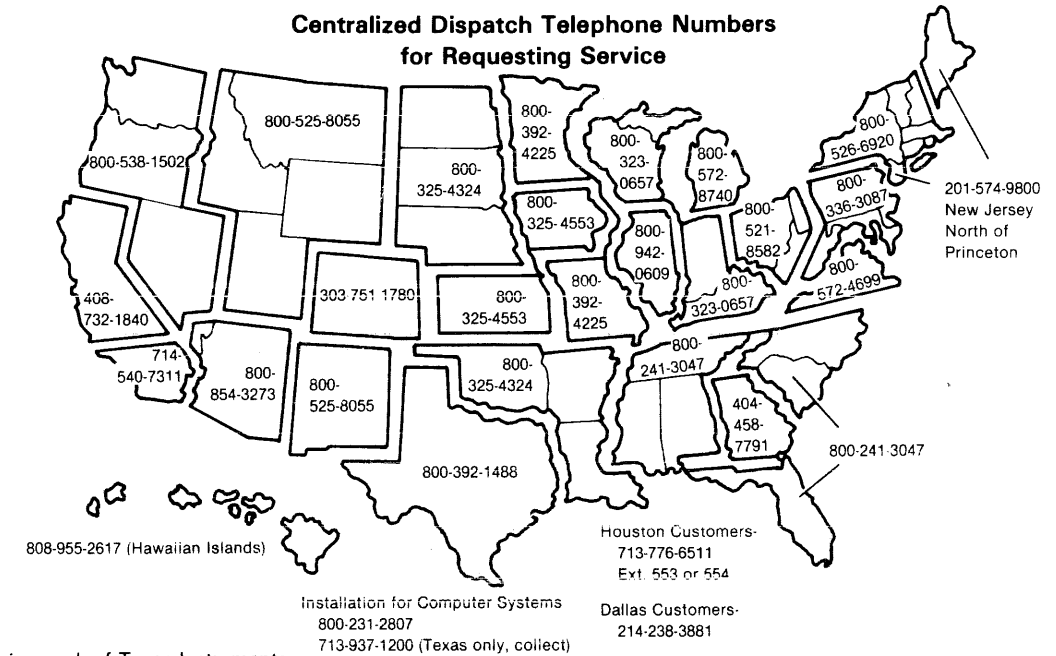
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